

# **DIABETES**

## **LITERATURE INDEX**

NATIONAL INSTITUTE OF ARTHRITIS,  
METABOLISM, AND DIGESTIVE DISEASES

U.S. DEPARTMENT OF  
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# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

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## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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Diabetes Literature Index  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
Building 31, Room 9A-03  
Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

*Hierarchical Subject Index:* This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

## Arrangement of the Hierarchical Index

1	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	1.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
1.A	ISLANDS OF LANGERHANS	1.E.3.6	HYPERGLYCEMIA, ETIOLOGY
1.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	1.E.3.7	HYPERGLYCEMIA, METABOLISM
1.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	1.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	1.E.3.9	HYPERGLYCEMIA, URINE
1.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	1.E.4	GLYCOSURIA
1.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	1.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
1.B	PANCREAS	1.E.4.2	GLYCOSURIA, COMPLICATIONS
1.B.1	PANCREAS, ANATOMY RELATED	1.E.4.3	GLYCOSURIA, DIAGNOSIS
1.B.2	PANCREAS, BIOCHEMISTRY RELATED	1.E.4.4	GLYCOSURIA, DRUG THERAPY
1.B.3	PANCREAS, PHYSIOLOGY RELATED	1.E.4.5	GLYCOSURIA, ENZYMOLOGY
1.B.4	PANCREAS, PHARMACOLOGY RELATED	1.E.4.6	GLYCOSURIA, ETIOLOGY
1.B.5	PANCREAS, PATHOLOGY RELATED	1.E.4.7	GLYCOSURIA, METABOLISM
1.B.6	PANCREAS, SURGERY RELATED	1.E.4.8	GLYCOSURIA, OCCURRENCE
1.B.6.1	PANCREAS, TRANSPLANTATION	1.E.5	GLYCOSURIA, RENAL
1.B.6.2	PANCREATECTOMY	1.E.6	HYPOGLYCEMIA
1.C	INSULIN	1.E.6.1	HYPOGLYCEMIA, BLOOD
1.C.1	INSULIN, BIOCHEMISTRY RELATED	1.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
1.C.1.1	INSULIN, ISOLATION AND PURIFICATION	1.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
1.C.1.2	INSULIN, ANALYSIS	1.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
1.C.1.3	INSULIN, CHEMICAL SYNTHESIS	1.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
1.C.1.4	INSULIN, BIOSYNTHESIS	1.E.6.6	HYPOGLYCEMIA, ETIOLOGY
1.C.1.5	INSULIN, METABOLISM	1.E.6.7	HYPOGLYCEMIA, METABOLISM
1.C.1.6	INSULIN, BLOOD	1.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
1.C.1.7	INSULIN, URINE	1.E.6.9	HYPOGLYCEMIA, THERAPY
1.C.2	INSULIN, PHYSIOLOGY RELATED	1.F	DIABETES
1.C.2.1	INSULIN, PHYSIOLOGY	1.F.1	ALLOXAN DIABETES (SEE SEC. 1.F.10.2)
1.C.2.2	INSULIN, SECRETION	1.F.2	DIABETES MELLITUS
1.C.3	INSULIN, PHARMACOLOGY RELATED	1.F.2.1	DIABETES MELLITUS, JUVENILE
1.C.3.1	INSULIN, PHARMACODYNAMICS	1.F.3	DIABETES, BIOCHEMISTRY RELATED
1.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	1.F.3.1	DIABETES, METABOLISM
1.C.3.3	INSULIN, ADVERSE EFFECTS	1.F.3.2	DIABETES, ENZYMOLOGY
1.C.4	HYPERINSULINISM	1.F.3.3	DIABETES, BLOOD
1.C.4.1	INSULIN COMA	1.F.3.4	DIABETES, URINE
1.C.5	INSULIN ANTIBODIES	1.F.4	DIABETES, PHYSIOPATHOLOGY
1.C.6	INSULIN RESISTANCE	1.F.5	DIABETES, IMMUNOLOGY
1.C.7	INSULIN, THERAPY RELATED	1.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
1.C.7.1	INSULIN, DIAGNOSTIC USE	1.F.6.1	DIABETIC KETOACIDOSIS
1.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)	1.F.6.1.1	ACIDOSIS, DIABETIC
1.C.7.3	INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)	1.F.6.1.2	DIABETIC COMA
1.C.8	INSULIN, HISTORY	1.F.6.2	DIABETIC ANGIOPATHIES
1.D	GLUCAGON	1.F.6.3	DIABETIC NEPHROPATHIES
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1.D.1.1	GLUCAGON, ANALYSIS	1.F.6.5	DIABETIC RETINOPATHY
1.D.1.2	GLUCAGON, METABOLISM	1.F.6.6	OTHER COMPLICATIONS OF DIABETES
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1.D.2.1	GLUCAGON, PHYSIOLOGY	1.F.7	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
1.D.2.2	GLUCAGON, SECRETION	1.F.7.1	DIABETES, OCCURRENCE
1.D.3	GLUCAGON, PHARMACOLOGY RELATED	1.F.7.2	DIABETES, ETIOLOGY
1.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	1.F.7.3	DIABETES, CONGENITAL
1.D.3.2	GLUCAGON, PHARMACODYNAMICS	1.F.7.4	DIABETES, FAMILIAL AND GENETIC
1.D.3.3	GLUCAGON, TOXICITY	1.F.7.5	PREDIABETIC STATE
1.D.4	GLUCAGON, THERAPY RELATED	1.F.8	DIABETES, DIAGNOSIS RELATED
1.D.4.1	GLUCAGON, DIAGNOSTIC USE	1.F.8.1	GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)
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1.E.2	GLUCOSE TOLERANCE TEST	1.F.9.2.4	DIABETIC DIET
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1.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	1.F.9.2.8	SACCHARIN
1.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	1.F.9.3	DIABETES, INSULIN AND THERAPY



## Arrangement of the Hierarchical Index

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 1.F.9.3.2 INSULIN, THERAPEUTIC USE  
 1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY  
 1.F.9.4.1 ANTIDIABETICS  
 1.F.9.4.2 TOLBUTAMIDE  
 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES  
 1.F.9.4.4 PHENFORMIN  
 1.F.9.4.5 OTHER BIGUANIDES  
 1.F.9.5 DIABETES DRUG THERAPY  
 1.F.9.6 DIABETES THERAPY  
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 1.F.9.8 DIABETES, SURGERY  
 1.F.9.9 DIABETES, MORTALITY  
 1.F.10 DIABETES, EXPERIMENTAL  
 1.F.10.1 DIABETES, CHEMICALLY INDUCED  
 1.F.10.2 ALLOXAN DIABETES  
 1.F.10.2.1 ALLOXAN DIABETES, BLOOD  
 1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY  
 1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY  
 1.F.10.2.4 ALLOXAN DIABETES, METABOLISM  
 1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY  
 1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY  
 1.F.11 DIABETES, VETERINARY  
 1.F.12 DIABETES, HISTORY  
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 2.A.2 INSULIN (SEE SEC. 1.C)  
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 2.B.5 ADRENAL DISORDERS  
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 2.C.3 THYROID DISORDERS  
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 2.F.2 TESTIS  
 2.F.3 SEX HORMONES  
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 2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES  
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 2.G.2.3 HORMONES, ECTOPIC  
 2.G.2.4 PLACENTAL HORMONES  
 2.G.2.5 RELAXIN

2.G.2.6 JUVENILE HORMONES  
 2.G.3 CHROMAFFIN SYSTEM  
 2.G.4 PINEAL BODY  
 2.G.5 PITUITARY-ADRENAL SYSTEM  
 2.G.6 SECRETORY RATE







# MEDLARS Terms Included in Hierarchical Index

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PHYSIOPATHOLOGY	1.B.3 PANCREAS, PHYSIOLOGY RELATED
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PANCREATECTOMY	1.B.6.2 PANCREATECTOMY
PANCREATIC DISEASES	1.B.5 PANCREAS, PATHOLOGY RELATED
PANCREATIC EXTRACTS	1.B.4 PANCREAS, PHARMACOLOGY RELATED
PANCREATIC HORMONES	1.B.2 PANCREAS, BIOCHEMISTRY RELATED
PANCREOZYMIN	2.G.2.1 GASTROINTESTINAL HORMONES
PARAMETHASONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
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PARATHYROID GLANDS	2.D PARATHYROID GLANDS
PARATHYROID HORMONE	2.D PARATHYROID GLANDS
PHENFORMIN	1.F.9.4.4 PHENFORMIN
PINEAL BODY	2.G.4 PINEAL BODY
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### 1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE

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- DIPHENYLHYDANTOIN INHIBITION OF PENTAGASTRIN-STIMULATED CALCITONIN SECRETION IN THE PIG.** Pento JT *Horm Metab Res* 8: 399-401, Sep 76 (Eng) \*DL/77AUG40
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- PULMONARY INSULIN RESPONSIVITY: IN VIVO EFFECTS OF INSULIN ON THE DIABETIC RAT LUNG AND SPECIFIC INSULIN BINDING TO LUNG RECEPTORS IN NORMAL RATS.** Morishige WK, Uetake CA, Greenwood FC, Akaka J *Endocrinology* 100: 1719-22, Jun 77 (Eng) DL/77AUG259
- HORMONAL AND METABOLIC EFFECTS OF SOMATOSTATIN IN DIABETIC PATIENTS SUBMITTED TO AN I.V. ARGININE INFUSION.** Annan R, Heuclin C, Girard JR, Basdevant A, Predine J, Hussion JM *Diabete Metab* 3: 11-7, Mar 77 (Eng) DL/77AUG274
- LACTIC ACIDOSIS COMPLICATING DIABETIC KETOSIS IN A PATIENT WITH HYPERTHYROIDISM.** De Troyer A, Naeije R, Clumeck N, Balasse EO *Diabete Metab* 3: 23-6, Mar 77 (Eng) DL/77AUG276
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- PLASMA INSULIN AND C-PEPTIDE LEVELS IN CIRRHOTIC AND UREMIC PATIENTS.** Kawai K, Hayakawa H, Yoshida K, Shimizu M, Noto Y *Diabete Metab* 3: 7-10, Mar 77 (Eng) DL/77AUG285
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- EFFECT OF ETHYNOLOL DIACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE COMPOUND ON CARBOHYDRATE METABOLISM. II. ONE YEAR INTRAVENOUS GLUCOSE TOLERANCE STUDY.** Goldman JA *Diabetologia* 13: 89-91, Apr 77 (Eng) DL/77AUG311
- PROLACTIN: A DIABETOGENIC HORMONE.** Landgraf R, Landraf-Leurs MM, Weissmann A, Horl R, von Werder K, Scriba PC *Diabetologia* 13: 99-104, Apr 77 (Eng) DL/77AUG313
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# 4.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

- IMMUNOREACTIVE GLUCAGON (IRG) RESPONSES TO INTRAVENOUS GLUCOSE IN PREDIABETES AND DIABETES AMONG PIMA INDIANS AND NORMAL CAUCASIANS.** Aronoff SL, Bennett PH, Unger RH *J Clin Endocrinol Metab* 44: 968-72, May 77 (Eng) DL/77AUG351
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- [CARBOHYDRATE METABOLISM AND SERUM AMYLASE ACTIVITY IN NORMAL PERSONS]** Otsuki M, Yau H, Yamasaki T, Maeda M, Okano K *Jpn J Gastroenterol* 74: 190-6, Feb 77 (Jpn) DL/77AUG415
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- [REGULATION OF BLOOD SUGAR IN THE NEWBORN INFANT]** Francois R *Pediatrics* 32: 187-200, Mar 77 (Fre) DL/77AUG483
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- AHR-5850: A POTENT ANTI-INFLAMMATORY COMPOUND.** Sancilio LF, Reese DL, Cheung S, Alphin RS *Agents Actions* 7: 133-44, Mar 77 (Eng) DL/77AUG595
- EFFECT OF ORAL ALANINE LOADS ON THE SERUM TRIGLYCERIDES OF ORAL CONTRACEPTIVE USERS AND NORMAL SUBJECTS.** Rose DP, Leklem JE, Fardal L, Baron RB, Shrago E *Am J Clin Nutr* 30: 691-4, May 77 (Eng) DL/77AUG599
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- FETAL METABOLIC RESPONSE TO MATERNAL FASTING IN THE RAT.** Girard JR, Ferre P, Gilbert M, Kervran A, Assan R, Marliss EB *Am J Physiol* 232: e456-63, May 77 (Eng) DL/77AUG605
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- INVOLVEMENT OF A HUMORAL FACTOR IN REGULATION OF BODY WEIGHT IN PARABOTIC RATS.** Parameswaran SV, Stefens AB, Hervey GR, de Ruiter L *Am J Physiol* 232: e150-7, May 77 (Eng) DL/77AUG609
- STUDIES WITH AN ARTIFICIAL ENDOCRINE PANCREAS.** Albisser AM, Leibell BS, Zinman B, Murray FT, Zingg W, Botz CK, Denoga A, Marliss EB *Arch Intern Med* 137: 639-49, May 77 (Eng) DL/77AUG638
- PORTACAVAL DIVERSION FOR SEVERE HYPERCHOLESTEROLEMIA. REPORT OF A CASE WITH MEASUREMENTS OF GLUCOSE TOLERANCE, INSULIN, AND GLUCAGON LEVELS.** Weglicki WB, Ganda OP, Soeldner JS, Murawski BJ, Cohn LH, Couch NP *Arch Surg* 112: 634-6, May 77 (Eng) DL/77AUG644
- TREATMENT OF HYPERTRIGLYCERIDEMIA WITH METFORMIN. EFFECTIVENESS AND ANALYSIS OF RESULTS.** Sirtori CR, Tremoli E, Sirtori M, Conti F, Paoletti R *Atherosclerosis* 26: 583-92, Apr 77 (Eng) DL/77AUG666
- 1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS**
- 1.E.2 GLUCOSE TOLERANCE TEST**
- PANCREATIC ENDOCRINE DISTURBANCE IN CHRONIC PANCREATITIS.** Wakabayashi A, Saito S, Mori R *Bull Osaka Med Sch* 22: 36-42, Jul 76 (Eng) DL/77AUG203
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- EXPERIMENTAL PANCREATODUODENAL ALLOTRANSPLANTATION: STUDIES IN THE UNIMMUNOSUPPRESSED PIG.** Jensen SL, Nielsen OV, Kuhl C, Petri M *Dan Med Bull* 24: 55-60, Apr 77 (Eng) DL/77AUG241
- PHYSICAL TRAINING IN MAN. SKELETAL MUSCLE METABOLISM IN RELATION TO MUSCLE MORPHOLOGY AND RUNNING ABILITY.** Bylund AC, Bjuro T, Cederblad G, Holm J, Lundholm K, Sjostrom M, Angquist KA, Schersten T *Eur J Appl Physiol* 36: 151-69, 15 Mar 77 (Eng) [54 ref.] DL/77AUG261
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- THE IMPORTANCE OF HLA GENES TO SUSCEPTIBILITY IN THE DEVELOPMENT OF JUVENILE DIABETES MELLITUS. A STUDY OF 93 PATIENTS AND 68 FIRST DEGREE BLOOD RELATIONS.** Ludwig H, Scherthaner G, Mayr WR *Diabetes Metab* 3: 43-8, Mar 77 (Eng) DL/77AUG281
- PLASMA INSULIN AND C-PEPTIDE LEVELS IN CIRRHOTIC AND UREMIC PATIENTS.** Kawai K, Hayakawa H, Yoshida K, Shimizu M, Noto Y *Diabetes Metab* 3: 7-10, Mar 77 (Eng) DL/77AUG285
- MONOZYGOTIC TRIPLETS WITH DISCORDANCE FOR DIABETES MELLITUS AND DIABETIC MICROANGIOPATHY.** Ganda OP, Soeldner JS, Gleason RE, Smith TM, Kilo C, Williamson JR *Diabetes* 26: 469-79, May 77 (Eng) DL/77AUG292
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- EFFECT OF FOOD INGESTION ON INTESTINAL GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) SECRETION IN NORMAL AND GASTRECTOMIZED SUBJECTS.** Marco J, Hedo JA, Villanueva ML, Calle C, Corujedo A, Segovia JM *Diabetologia* 13: 131-5, Apr 77 (Eng) DL/77AUG303
- EFFECT OF ETHYNYDIOL DIACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE COMPOUND ON CARBOHYDRATE METABOLISM. II. ONE YEAR INTRAVENOUS GLUCOSE TOLERANCE STUDY.** Goldman JA *Diabetologia* 13: 89-91, Apr 77 (Eng) DL/77AUG311
- PROLACTIN: A DIABETOGENIC HORMONE.** Landgraf R, Landraf-Leurs MM, Weissmann A, Horl R, von Werder K, Scriba PC *Diabetologia* 13: 99-104, Apr 77 (Eng) DL/77AUG313
- EFFECT OF BIGUANIDE TREATMENT IN OBESE CHILDREN.** Luttjens A, Smit JH *Helv Paediatr Acta* 31: 473-80, Apr 77 (Eng) DL/77AUG331
- THE DIABETOGENIC ACTION OF SOMATOSTATIN IN HEALTHY SUBJECTS AND IN MATURITY ONSET DIABETICS.** Waldhauser W, Bratusch-Marrain P, Dudezak R, Deutsch E *J Clin Endocrinol Metab* 44: 876-83, May 77 (Eng) DL/77AUG350

# 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

**IMMUNOREACTIVE GLUCAGON (IRG) RESPONSES TO INTRAVENOUS GLUCOSE IN PREDIABETES AND DIABETES AMONG PIMA INDIANS AND NORMAL CAUCASIANS.** Aronoff SL, Bennett PH, Unger RH *J Clin Endocrinol Metab* 44: 968-72, May 77 (Eng) DL/77AUG351

**PANCREATIC ALPHA AND BETA CELL FUNCTIONS IN CYSTIC FIBROSIS.** Lippe BM, Sperling MA, Dooley RR *J Pediatr* 90: 751-5, May 77 (Eng) DL/77AUG375

**DYNAMICS OF INSULIN SECRETION AND RESISTANCE AFTER BURNS.** Turinsky J, Saba TM, Scovill WA, Chesnut T *J Trauma* 17: 344-50, May 77 (Eng) DL/77AUG391

**[PANCREATIC ENDOCRINE DYSFUNCTION IN CHRONIC PANCREATITIS, WITH SPECIAL REFERENCE TO PLASMA PANCREATIC GLUCAGON AND INSULIN RESPONSES TO ORAL GLUCOSE LOAD]** Hayakawa T, Noda A, Suzuki T, Aoki I, Inoue J *Jpn J Gastroenterol* 74: 130-7, Feb 77 (Jpn) DL/77AUG413

**[CARBOHYDRATE METABOLISM AND SERUM AMYLASE ACTIVITY IN NORMAL PERSONS]** Otsuki M, Yuo H, Yamasaki T, Maeda M, Okano K *Jpn J Gastroenterol* 74: 190-6, Feb 77 (Jpn) DL/77AUG415

**[GLUCOSE TOLERANCE TEST AND CERTAIN INDICATORS OF LIPID METABOLISM IN ISCHEMIC HEART DISEASE]** Sinitskii PA *Kardiologia* 17: 133-5, Jan 77 (Rus) DL/77AUG416

**IMPORTANCE OF ABNORMAL GLUCOSE TOLERANCE (HYPOGLYCAEMIA AND HYPERGLYCAEMIA) IN THE AETIOLOGY OF PRE-ECLAMPSIA.** Long PA, Abell DA, Beischer NA *Lancet* 1: 923-5, 30 Apr 77 (Eng) DL/77AUG429

**FAMILIAL HEMOCHROMATOSIS: CHARACTERISTICS OF THE PRECIRRHOTIC STAGE IN A LARGE KINDRED.** Rowe JW, Wands JR, Mezey E, Waterbury LA, Wright JR, Tobin J, Andres R *Medicine (Baltimore)* 56: 197-211, May 77 (Eng) DL/77AUG444

**RATIONALIZING THE DIAGNOSIS OF DIABETES MELLITUS.** Phillips PJ, Pain RW *Med J Aust* 1: 380-1, Mar 12 77 (Eng) DL/77AUG446

**[PHARMACOKINETICAL COMPARISON OF GLUCOSE AND OLIGOSACCHARIDES FOR ORAL GLUCOSE TOLERANCE TEST (AUTHORS TRANSL)]** Puyn U, Gladie E *Monatsschr Kinderheilkd* 125: 147-52, Mar 77 (Ger) DL/77AUG450

**[GLUCOSE TOLERANCE TEST AND SOME PATHWAYS OF GLUCOSE METABOLISM IN PATIENTS WITH CRANIOCEREBRAL TRAUMA]** Dudkowska A *Neurol Neurochir Pol* 11: 171-8, Mar-Apr 77 (Pol) DL/77AUG462

**[CARBOHYDRATE METABOLISM AND IMMUNE STATUS IN JUVENILE DIABETES MELLITUS AND CHILDHOOD OBESITY]** Cser A, Ambrus M, Jaszai V, Bajtai G, Heim T, Varga F, Gal A *Orv Hetil* 118: 1099-102, 8 May 77 (Hun) DL/77AUG476

**[CARBOHYDRATE METABOLISM OF INFANTS WITH PRENATAL DYSTROPHY AND INFANTS OF DIABETIC MOTHERS. GLUCOSE TOLERANCE AND INSULIN SECRETION IN THE FIRST WEEK OF LIFE (AUTHORS TRANSL)]** Pollak A, Havelee L *Paediatr Paedol* 12: 127-36, 1977 (Ger) DL/77AUG478

**PROBLEMS IN THE DIAGNOSIS OF CUSHING'S SYNDROME.** Thomson JE, Thomson JA, Beattall GH *Scott Med J* 22: 133-8, Apr 77 (Eng) DL/77AUG518

**[HYPERTRIGLYCERIDEMIA INDUCED BY CARBOHYDRATES IN PRIMARY HYPERLIPOPROTEINEMIA]** Lussier-Cacan S, Beaudoin R, Gattereau A, Davignon J *Union Med Can* 106: 474-84, Apr 77 (Fre) DL/77AUG540

**[CHANGES IN GLUCOSE TOLERANCE, SERUM INSULIN AND BLOOD LIPIDS DURING CONTRACEPTIVE MEDICATION (OESTROGEN-GESTAGEN) IN METABOLICALLY-HEALTHY WOMEN (AUTHORS TRANSL)]** Lageder H, Irsigler K, Schneider WH, Spona J, Bauer P, Wohlzogen FX *Wien Klin Wochenschr* 89: 276-81, 15 Apr 77 (Ger) DL/77AUG561

**AN APPRAISAL OF RADICAL PANCREATODUODENECTOMY BASED ON INSULIN SECRETION.** Miyata M, Takao T, Okamoto E, Manabe H *Am J Surg* 133: 577-81, May 77 (Eng) DL/77AUG612

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## SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

### 2.A ENDOCRINE PANCREAS

#### 2.A.1 ISLETS (SEE SEC. 1.A)

#### 2.A.2 INSULIN (SEE SEC. 1.C)

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## 2.C THYROID GLAND

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## 2.E PITUITARY GLAND

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**NEONATAL AND INFANTILE HYPOGLYCEMIA DUE TO INSULIN EXCESS: NEW ASPECTS OF DIAGNOSIS AND SURGICAL MANAGEMENT.** Thomas CG Jr, Underwood LE, Carney CN, Dolcourt JL, Whitt JJ *Ann Surg* 185: 505-17, May 77 (Eng) DL/77AUG635

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### RENAL FAILURE, ACUTE

#### RENAL FAILURE, ACUTE

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ADOLESCENCE; ADULT; AGE FACTORS; AGED; AUTOANTIBODIES (analysis); AUTOIMMUNE DISEASES (immunology); CHILD; COMPARATIVE STUDY; DIABETES MELLITUS (immunology); FEMALE; HUMAN; INSULIN ANTIBODIES (analysis); MALE; MIDDLE AGE; SEX FACTORS; THYROGLOBULIN (immunology); THYROID GLAND (immunology).

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SECONDARY RED CELL PYRUVATE KINASE DEFICIENCY. I. STUDY OF 30 SUBJECTS OF MALIGNANT HEMATOLOGICAL DISORDERS. Abe S *Acta Haematol Jpn* 39: 247-54, Jun 76 (Eng) \*DL/77AUG137

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[PHARMACOKINETICS IN LIVER CIRRHOSIS]

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AMINOPYRINE (metabolism); BIOTRANSFORMATION; CHLORAMPHENICOL (metabolism); COUMARINS (metabolism); DRUGS (metabolism); ENGLISH ABSTRACT; HALF-LIFE; HUMAN; KINETICS; LIVER CIRRHOSIS (metabolism); PHENYLBUTAZONE (metabolism); SALICYLIC ACIDS (metabolism); TOLBUTAMIDE (metabolism).

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[HYPERGLYCEMIC NONKETOTIC HYPEROSMOLAR COMA] Aderka D *Harefuah* 92: 225-7, 1 Mar 77 (Heb) DL/77AUG320  
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ADENOSINE TRIPHOSPHATASE (metabolism); ANTIGENS (analysis); CELL FRACTIONATION; CELL MEMBRANE (enzymology, immunology, metabolism); CENTRIFUGATION; FETUS (immunology); HUMAN, INSULIN (metabolism); NUCLEOTIDASES (metabolism); PREGNANCY TRIMESTER, FIRST; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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CELLS, CULTURED; CYCLOHEXIMIDE (pharmacodynamics); DACTINOMYCIN (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); DNA (biosynthesis); FIBROBLASTS (metabolism); GLUCAGON (pharmacodynamics); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives, pharmacodynamics); HYDROXYUREA (pharmacodynamics); HYPOXANTHINES (metabolism); INSULIN (pharmacodynamics); NUCLEOTIDES, CYCLIC (pharmacodynamics); THEOPHYLLINE (pharmacodynamics); THYMIDINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); XANTHINES (pharmacodynamics).

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ABNORMALITIES (etiology); ADULT; CASE REPORT; FEMALE; HUMAN; INFANT MORTALITY; PREGNANCY IN DIABETES (occurrence); PREGNANCY IN DIABETES (diagnosis); PREGNANCY.

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[CARBOHYDRATE METABOLISM AND IMMUNE STATUS IN JUVENILE DIABETES MELLITUS AND CHILDHOOD OBESITY] Cser A, Ambrus M, Jaszai V, Bajtai G, Heim T, Varga F, Gal A *Orv Hetil* 118: 1099-102, 8 May 77 (Hun) DL/77AUG476

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TRANSPORT OF SUGARS IN CHICK-EMBRYO FIBROBLASTS. EVIDENCE FOR A LOW-AFFINITY SYSTEM AND A HIGH-AFFINITY SYSTEM FOR GLUCOSE TRANSPORT. Christopher CW, Kohlhauser MS, Amos H *Biochem J* 158: 439-50, 15 Aug 76 (Eng) \*DL/77AUG171

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ADULT; AMINO ACIDS (blood); AMMONIA (blood); ENGLISH ABSTRACT; GLUCAGON (administration & dosage); HUMAN; MALE; UREA (blood).

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[PREGNANCY AND DIABETES] Angeli I *Zentralbl Gynaekol* 99: 201-4, 1977 (Ger) DL/77AUG574

ADULT; AGED; BIRTH WEIGHT; ENGLISH ABSTRACT; FEMALE; HUMAN; HUNGARY; MIDDLE AGE; OBESITY IN DIABETES (complications); PREDIABETIC STATE; PREGNANCY IN DIABETES (diagnosis); PREGNANCY COMPLICATIONS (in pregnancy); PREGNANCY; RETROSPECTIVE STUDIES; TIME FACTORS.

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ABRUPTIO PLACENTAE (complications); ADULT; BREECH PRESENTATION; CASE REPORT; FEMALE; FETAL DEATH (etiology); HUMAN; LABOR COMPLICATIONS; LABOR PRESENTATION; METHODS; PREGNANCY IN DIABETES; PREGNANCY.

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ADRENAL GLANDS (drug effects); ADRENALECTOMY; ADRENERGIC ALPHA RECEPTOR BLOCKADERS (pharmacodynamics); ADRENERGIC BETA RECEPTOR BLOCKADERS (pharmacodynamics); ANIMAL; CATECHOLAMINES (antagonists & inhibitors, physiology); DOGS; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (antagonists & inhibitors, physiology).

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AGED; AMPUTATION; ARTERIOSCLEROSIS; OBLITERANS (surgery); DIABETIC ANGIOPATHIES (surgery); ENGLISH ABSTRACT; FEMALE; GANGRENE (surgery); HUMAN; LEG (surgery); MALE; MIDDLE AGE; POSTOPERATIVE COMPLICATIONS (prevention & control); SKIN (transplantation); SURGICAL WOUND DEHISCENCE (prevention

& control); TRANSPLANTATION, AUTOLOGOUS.

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ADOLESCENCE; ADRENAL GLANDS (drug effects); ADULT; DOGS; ERGOTOXINE (pharmacodynamics); FEMALE; HUMAN; HYDROCORTISONE (blood); HYPOGLYCEMIA (blood); HYPOTHALAMO-HYPOPHYSEAL SYSTEM (drug effects); INSULIN (administration & dosage); MALE; RATS; RECEPTORS, DOPAMINE (drug effects); 2-BROMOERGOCRYPTINE (pharmacodynamics).

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ADULT; BINDING SITES; FEEDBACK; FEMALE; GLUCAGON (pharmacodynamics); HUMAN; INDOMETHACIN (pharmacodynamics); INSULIN (blood, secretion); MALE; PANCREAS (physiology); PROSTAGLANDINS (pharmacodynamics); RECEPTORS, HORMONE (drug effects).

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**2,3-DIPHOSPHOGLYCERATE, NUCLEOTIDE PHOSPHATE, AND ORGANIC AND INORGANIC PHOSPHATE LEVELS DURING THE EARLY PHASES OF DIABETIC KETOACIDOSIS.** Kanter Y, Gerson JR, Bessman AN *Diabetes* 26: 429-33, May 77 (Eng) DL/77AUG286

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CHILD; GLUCAGON (diagnostic use); HUMAN; KINETICS; SOMATOMEDIN (blood).

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ACYLATION; ANIMAL; CARNITINE PALMITOYLTRANSFERASE (pharmacodynamics); CARNITINE (pharmacodynamics); COENZYME A (pharmacodynamics); FATTY ACIDS (metabolism); GLYCEROPHOSPHATES (metabolism); LINOLEIC ACIDS (metabolism); MALE; MICROSOMES, LIVER (metabolism); MITOCHONDRIA, LIVER (metabolism); PALMITIC ACIDS (metabolism); PHOSPHATIDIC ACIDS (biosynthesis); RATS.

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BLOOD SUGAR (analysis); CHEMISTRY, CLINICAL; CHOLESTEROL (blood); EVALUATION STUDIES; HUMAN; HYDROCORTISONE (blood); MASS FRAGMENTOGRAPHY (methods); MICROCHEMISTRY; PROGESTERONE (blood); QUALITY CONTROL; TESTOSTERONE (blood); TRIGLYCERIDES (blood); UREA (blood).

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**DEMONSTRATION OF GASTRIC GLUCAGON HYPERSECRETION IN INSULIN-DEPRIVED ALLOXAN-DIABETIC DOGS.** Blazquez E, Munoz-Barragan L, Patton GS, Dobbs RE, Unger RH *J Lab Clin Med* 89: 971-7, May 77 (Eng) DL/77AUG364

ALLOXAN DIABETES (metabolism); ANIMAL; ARGININE (administration & dosage); BLOOD SUGAR; DOGS; GASTRIC MUCOSA (secretion); GLUCAGON (blood, secretion); INFUSIONS, PARENTERAL; INSULIN (deficiency); PANCREAS (secretion); STOMACH (metabolism).

# **Blaut-Pajot MT**

**INTERSTITIAL GAMMA IRRADIATION BY 198AU OF THE PITUITARY IN DIABETIC RETINOPATHY. SELECTIVE GROWTH HORMONE BLOCKADE AND OCULAR RESULTS.** Schaub C, Szikla G, Drouin P, Blaut-Pajot MT, Mejean L, Debry G, Talairach J *J Neurosurg* 46: 703-16, Jun 77 (Eng) DL/77AUG372

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; CARBOHYDRATES (metabolism); CHLORPROPAMIDE (pharmacodynamics); DRUG SYNERGISM; GLUCAGON (administration & dosage, pharmacodynamics); GLUCOSE (biosynthesis, metabolism); GLYCOGEN (metabolism); INSULIN (administration & dosage, pharmacodynamics); LIVER (metabolism); MALE; PERFUSION; RATS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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HYPOLYCAEMIA AND FOOD INTAKE IN RATS GIVEN GRADUATED DOSES OF INSULIN. Mozes S, Kuchar S, Boda K. *Physiol Bohemoslov* 159-64, 1977 (Eng) DL/77AUG505

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A TEST OF THE HYPOTHESIS THAT THE RATE OF FALL IN GLUCOSE CONCENTRATION TRIGGERS COUNTERREGULATORY HORMONAL RESPONSES IN MAN. DeFronzo RA, Andres R, Beddoe TA, Boden G, Faloon GA, Tobin JD. *Diabetes* 26: 445-52, May 77 (Eng) DL/77AUG289

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CORTISONE (metabolism, pharmacodynamics); ENZYME INDUCTION (drug effects); ESCHERICHIA COLI (enzymology, metabolism); GALACTOSIDASES (biosynthesis); INSULIN (pharmacodynamics); ISOPROPYL THIOGALACTOSIDE (metabolism); LACTOSE (biosynthesis); MUTATION; OPERON; TEMPERATURE.

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ADULT; ENGLISH ABSTRACT; ESTRADIOL (blood); ESTRIL (blood); FEMALE; HUMAN; PREGNANCY IN DIABETES (blood); PREGNANCY COMPLICATIONS (blood); PREGNANCY TOXEMIAS (blood); PREGNANCY; RADIOIMMUNOASSAY.

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ANIMAL; EXTRACELLULAR SPACE; GLOMERULAR FILTRATION RATE; GLUCOSE (metabolism); KIDNEY TUBULES (metabolism); KIDNEY TUBULES, DISTAL (metabolism); KIDNEY TUBULES, PROXIMAL (metabolism); MALE; RATS.

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AGE FACTORS; DIABETES MELLITUS (metabolism); DIETARY CARBOHYDRATES; DIETARY FATS; DIETARY PROTEINS; DRUG INTERACTIONS; DRUGS (metabolism); HUMAN; NUTRITION DISORDERS (metabolism); NUTRITION; OBESITY (metabolism).

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PLASMA CONCENTRATIONS, BIOAVAILABILITY AND DISSOLUTION OF CHLORPROPAMIDE. Taylor T, Assinder DF, Chasseaud LF, Bradford PM, Burton JS *Eur J Clin Pharmacol* 11: 207-212, 11 Mar 77 (Eng) DL/77AUG264

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CHOLERAGEN-MEDIATED RELEASE OF TRAPPED GLUCOSE FROM LIPOSOMES CONTAINING GANGLIOSIDE GM1. Moss J, Fishman PH, Richards RL, Alving CR, Vaughan M, Brady RO *Proc Natl Acad Sci USA* 73: 3480-3, Oct 76 (Eng) \*DL/77AUG115

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THE DIABETOGENIC ACTION OF SOMATOSTATIN IN HEALTHY SUBJECTS AND IN MATURITY ONSET DIABETICS. Waldhauser W, Bratusch-Marrain P, Dudczak R, Deutsch E *J Clin Endocrinol Metab* 44: 876-83, May 77 (Eng) DL/77AUG350

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PHARMACOKINETIC INTERACTIONS WITH RIFAMPICIN. Zilly W, Breimer DD, Richter E *Clin Pharmacokinet* 2: 61-70, Jan-Feb 77 (Eng) DL/77AUG237

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FUSION IN PHOSPHOLIPID SPHERICAL MEMBRANES. II. EFFECT OF CHOLESTEROL, DIVALENT IONS AND PH. Breisblatt W, Ohki S *J Membr Biol* 29: 127-46, 20 Oct 76 (Eng) \*DL/77AUG90

CALCIUM (pharmacodynamics); CATIONS, DIVALENT; CHOLESTEROL (pharmacodynamics); HYDROGEN-ION CONCENTRATION (physiology); MAGNESIUM (pharmacodynamics); MANGANESE (pharmacodynamics); MEMBRANES (physiology); MEMBRANES, ARTIFICIAL; PHOSPHOLIPIDS; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )

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PHOSPHATIDIC ACID BIOSYNTHESIS IN RAT LIVER MITOCHONDRIA AND MICROSOMAL FRACTIONS. REGULATION OF FATTY ACID POSITIONAL SPECIFICITY. Bjerve KS, Daac LN, Bremer J *Biochem J* 158: 249-54, 15 Aug 76 (Eng) \*DL/77AUG169

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PLASMA TRIGLYCERIDE LOWERING BY EXERCISE DESPITE INCREASED FOOD INTAKE IN PATIENTS WITH TYPE IV HYPERLIPOPROTEINEMIA. Gyntelberg F, Brennan R, Holloszy JO, Schonfeld G, Rennie MJ, Weidman SW *Am J Clin Nutr* 30: 716-20, May 77 (Eng) DL/77AUG600

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PREVALENCE OF CORONARY ARTERY DISEASE AND PERIPHERAL ARTERY DISEASE IN PATIENTS WITH DIFFERENT TYPES OF PRIMARY HYPERLIPIDEMIA. Fellin CG, Briani G, Baggio G, Manzato E, Veronese R *Atherosclerosis* 26: 593-602, Apr 77 (Eng) DL/77AUG667

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ANIMAL; CYTOSOL (metabolism); DOGS; ENGLISH ABSTRACT; IN VITRO; INSULIN (pharmacodynamics); PROTEINS (biosynthesis); RECEPTORS, INSULIN; THYROID GLAND (drug effects, metabolism).

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[EFFECT OF ETHANOL ON GLYCID, LIPID, AND PROTEIN COMPONENTS IN THE LIVER AND BLOOD OF RATS (AUTHORS TRANSL.)] Brixova E, Zajackova O, Dzurikova V, Kolesar P *Bratisl Lek Listy* 65: 614-9, 6 Jun 76 (Slo) \*DL/77AUG9

ALCOHOL, ETHYL (blood, pharmacodynamics); ANIMAL; BLOOD PROTEINS (metabolism); BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); ENGLISH ABSTRACT; LIPIDS (metabolism); LIVER (drug effects); RATS.

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[AMINO ACID METABOLISM IN HEALTHY SUBJECTS AFTER GLUCAGON ADMINISTRATION (AUTHORS TRANSL.)] Anđel M, Brodan V, Brodanova M, Kuhn E *Cesk Gastroenterol Vyz* 31: 14-8, Jan 77 (Cze) DL/77AUG218

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METHYLPHENIDATE INCREASES SERUM GROWTH HORMONE CONCENTRATIONS. Brown WA, Williams BW *J Clin Endocrinol Metab* 43: 937-9, Oct 76 (Eng) \*DL/77AUG59  
ADULT; HUMAN; MALE; METHYLPHENIDATE (diagnostic use); PLACEBOS; SOMATOTROPIN (blood); TIME FACTORS.

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IDIOPATHIC RECURRENT SUPERFICIAL THROMBOPHLEBITIS: TREATMENT WITH FIBRINOLYTIC ENHANCEMENT. Jarrett PE, Morland M, Browse NL *Br Med J* 1: 933-4, 9 Apr 77 (Eng) DL/77AUG210

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THE EFFECT OF ESTRADIOL ON CARBOHYDRATE UTILIZATION DURING PROLONGED EXERCISE IN RATS. Gorski J, Stankiewicz B, Brycka R, Kiczka K *Acta Physiol Pol* 27: 361-7, Jul-Aug 76 (Eng) \*DL/77AUG138

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THE DYNAMICS OF GROWTH HORMONE SECRETION IN VARIOUS STAGES OF DIABETIC MICROANGIOPATHY DEVELOPMENT. Sieradzki J, Mruk K, Bryk E *Acta Med Pol* 18: 47-54, 1977 (Eng) DL/77AUG589

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[GLYCOLYSIS AND RESPIRATION IN PLACENTAL TISSUE IN THE DYNAMICS OF PREGNANCY DEVELOPMENT] Budko NV *Ukr Biokhim Zh* 48: 477-9, Jul-Aug 76 (Ukr) \*DL/77AUG126

ENGLISH ABSTRACT; FEMALE; FLUORIDES (pharmacodynamics); GLUCOSE (pharmacodynamics); GLYCOLYSIS; HUMAN; MITOCHONDRIA (metabolism); OXIDATIVE PHOSPHORYLATION; PLACENTA (metabolism, ultrastructure); PREGNANCY TRIMESTER, FIRST; PREGNANCY TRIMESTER, THIRD; PREGNANCY.

## Buffa R

THE ENDOCRINE CELLS OF THE PANCREAS AND RELATED TUMOURS. ULTRASTRUCTURAL STUDY AND CLASSIFICATION. Capella C, Solcia E, Frigerio B, Buffa R, Usellini L, Fontana P *Virchows Arch [Pathol Anat]* 373: 327-52, 29 Apr 77 (Eng) DL/77AUG547

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THE RELATIONSHIP BETWEEN BLOOD PRESSURE AND BIOCHEMICAL RISK FACTORS IN A GENERAL POPULATION. Bulpitt CJ, Hodes C, Everitt MG *Br J Prev Soc Med* 30: 158-62, Sep 76 (Eng) \*DL/77AUG8

ADULT; BLOOD PRESSURE; BLOOD SUGAR (analysis); BODY HEIGHT; BODY WEIGHT; CALCIUM (blood); CARDIOVASCULAR DISEASES (occurrence); CHOLESTEROL (blood); CREATININE (blood); ENGLAND; FEMALE; HEMOGLOBINS (analysis); HUMAN; MALE; MIDDLE AGE; PULSE; RISK; SERUM ALBUMIN (analysis); SEX FACTORS; URIC ACID (blood).

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GLYCOSYLATED HEMOGLOBINS AND LONG-TERM BLOOD GLUCOSE CONTROL IN DIABETES MELLITUS. Gabbay KH, Hasty K, Breslow JL, Ellison RC, Bunn HF, Gallop PM *J Clin Endocrinol Metab* 44: 859-64, May 77 (Eng) DL/77AUG349

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[ISOLATION AND CHARACTERISTICS OF AN ACHOLEPLASMA LAIDLAWII MUTANT WITH DEFECTIVE CARBOHYDRATE TRANSPORT] Ladygina VG, Burd GI, Tarshis MA *Dokl Akad Nauk SSSR* 229: 738-40, 1976 (Eng) \*DL/77AUG22

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SERUM CHOLESTEROL, TRIGLYCERIDE, GLUCOSE AND TOTAL BILIRUBIN CONCENTRATIONS, AS FUNCTIONS OF AGE AND SEX, IN SINCLAIR(S-1) MINIATURE SWINE. Tumbleson ME, Hicklin KW, Burks MF *Growth* 40: 293-300, Sep 76 (Eng) \*DL/77AUG36

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[ROLE OF CYCLIC ADENOSINE 3,5-MONOPHOSPHATE IN THE REGULATION OF HISTIDASE IN THE SKIN IN THE PROCESS OF ONTOGENY] Osipov EV, Burobin VA, Karelin AA *Vopr Med Khim* 22: 203-9, Mar-Apr 76 (Rus) DL/77AUG555

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### Burton JS

PLASMA CONCENTRATIONS, BIOAVAILABILITY AND DISSOLUTION OF CHLORPROPAMIDE. Taylor T, Assinder DF, Chasseaud LF, Bradford PM, Burton JS *Eur J Clin Pharmacol* 11: 207-212, 11 Mar 77 (Eng) DL/77AUG264

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[LACTIC ACIDOSIS AFTER ADMINISTRATION OF GUANIDINE DERIVATIVES (BUFORMIN, PHENFORMINE) (AUTHORS TRANSL.)] Butt H, Reiting J *Med Klin* 72: 708-11, 22 Apr 77 (Ger) DL/77AUG448

ACIDOSIS (chemically induced, drug therapy, therapy); AGED; BICARBONATES (therapeutic use); BIGUANIDES (adverse effects); BUFORMIN (adverse effects, blood, therapeutic use); CASE REPORT; DIABETES MELLITUS (drug therapy); ENGLISH ABSTRACT; FEMALE; GLOMERULAR FILTRATION RATE; HEMODIALYSIS; HUMAN; LACTATES (blood); MALE; MIDDLE AGE; PHENFORMIN (adverse effects, blood, therapeutic use); SODIUM (therapeutic use).

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PHYSICAL TRAINING IN MAN. SKELETAL MUSCLE METABOLISM IN RELATION TO MUSCLE MORPHOLOGY AND RUNNING ABILITY. Bylund AC, Bjuro T, Cederblad G, Holm J, Lundholm K, Sjostrom M, Angquist KA, Schersten T *Eur J Appl Physiol* 36: 151-69, 15 Mar 77 (Eng) [54 ref.] DL/77AUG261

CARNITINE (metabolism); CITRATE SYNTHASE (metabolism); FATTY ACIDS (metabolism); GLUCOSE TOLERANCE TEST; GLYCOGEN (metabolism); GLYCOLYSIS; HUMAN; LIPIDS (metabolism); MALE; MICROSCOPY, ELECTRON; MIDDLE AGE; MITOCHONDRIA, MUSCLE (ultrastructure); MUSCLE PROTEINS (metabolism); MUSCLES (metabolism, ultrastructure); OXIDATION-REDUCTION; PHYSICAL EDUCATION AND TRAINING; PHYSICAL FITNESS; REVIEW.

### Cacciari E

CONGENITAL HYPOPIUITARISM ASSOCIATED WITH NEONATAL HYPOGLYCEMIA AND MICROPHALLUS: EFFECT OF GH THERAPY. Cacciari E, Cicognani A, Pirazzoli P, Tassoni P, Bernardi F, Salarini S, Zappulla F, Mazzanti L *Helv Paediatr Acta* 31: 481-5, Apr 77 (Eng) DL/77AUG332

CASE REPORT; CHILD, PRESCHOOL; GENITALIA, MALE (abnormalities); HUMAN; HYPOGLYCEMIA (complications); HYPOPIUITARISM (congenital, drug therapy); MALE; SOMATOTROPIN (therapeutic use).

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METABOLIC AND ENDOCRINE STUDIES IN A CASE OF LIPOATROPHIC DIABETES. Rossini AA, Self J, Aoki TT, Goldman RF, Newmark SR, Meguid MM, Soeldner JS, Cahill GF *Metabolism* 26: 637-50, Jun 77 (Eng) DL/77AUG445

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DIABETES MELLITUS—PROGRESS REPORT. Cahill GF Jr *Prog Clin Biol Res* 10: 69-81, 1976 (Eng) DL/77AUG500

ADOLESCENCE; ADULT; AGE FACTORS; AGED; ATHEROSCLEROSIS (complications, etiology); CHILD; DIABETES MELLITUS (therapy); DIABETES MELLITUS (etiology); DIABETES MELLITUS (immunology); DIABETES MELLITUS, JUVENILE (therapy); DIABETES MELLITUS, JUVENILE (etiology, immunology); DIABETIC ANGIOPATHIES (etiology); HL-A; HUMAN; MIDDLE AGE; SEX FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES.

### Calle C

EFFECT OF FOOD INGESTION ON INTESTINAL GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) SECRETION IN NORMAL AND GASTRECTOMIZED SUBJECTS. Marco J, Hedo JA, Villanueva ML, Calle C, Corujedo A, Segovia JM *Diabetologia* 13: 131-5, Apr 77 (Eng) DL/77AUG303

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DIABETIC MICROANGIOPATHY IN KK MICE. II. SUPPRESSION OF GLOMERULOSCLEROSIS BY PYRIDINOLCARBAMATE. Reddi AS, Oppermann W, Velasco CA, Camerini-Davalos RA *Exp Mol Pathol* 26: 325-39, Apr 77 (Eng) DL/77AUG266

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THE EFFECT OF INTRACELLULAR CALCIUM IONS ON ADRENALINE-STIMULATED ADENOSINE 3:5-CYCLIC MONOPHOSPHATE CONCENTRATIONS IN PIGEON ERYTHROCYTES, STUDIED BY USING THE IONOPHORE A23187. Campbell AK, Siddle K *Biochem J* 158: 211-21, 15 Aug 76 (Eng) \*DL/77AUG168

A-23187 (pharmacodynamics); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); ADENOSINE TRIPHOSPHATE; ANIMAL; ANTIHISTOTICS (pharmacodynamics); CALCIUM (blood); EPINEPHRINE (antagonists & inhibitors, pharmacodynamics); ERYTHROCYTES (metabolism); EGTA (pharmacodynamics); MAGNESIUM (blood); PIGEONS; POTASSIUM (blood); TIME FACTORS.

### Cantalamesa Lperacchi M

HYPERTHYROIDISM WITH ELEVATED PLASMA TSH LEVELS AND PITUITARY TUMOR: STUDY WITH SOMATOSTATIN. Reschini E, Giustina G, Cantalamesa Lperacchi M *J Clin Endocrinol Metab* 43: 924-7, Oct 76 (Eng) \*DL/77AUG58

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THE ENDOCRINE CELLS OF THE PANCREAS AND RELATED TUMOURS. ULTRASTRUCTURAL STUDY AND CLASSIFICATION. Capella C, Solcia E, Frigerio B, Buffa R, Usellini L, Fontana P *Virchows Arch [Pathol Anat]* 373: 327-52, 29 Apr 77 (Eng) DL/77AUG547

ANIMAL; CATS; CELL DIFFERENTIATION; DOGS; GASTRIN; GLUCAGON; GUINEA PIGS; HUMAN; INSULIN; ISLANDS OF LANGERHANS (ultrastructure); ISLET CELL TUMOR (pathology); MICROSCOPY, ELECTRON; PANCREATIC NEOPLASMS (classification, pathology); SEROTONIN; SOMATOTROPIN RELEASE INHIBITING HORMONE (J); SWINE.

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ON THE PROBLEM OF THE RELEASE OF MITOCHONDRIAL CALCIUM BY CYCLIC AMP [LETTER]. Scarpa A, Malmstrom K, Chiesi M, Carafoli E *J Membr Biol* 29: 205-8, 20 Oct 76 (Eng) \*DL/77AUG91

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GLUTATHIONE-INSULIN TRANSHYDROGENASE ACTIVITY IN PREGNANT MOUSE MAMMARY GLAND: HORMONAL INFLUENCES STUDIED IN TISSUE CULTURE. Ferrier BM, Hendrie JM, Cardy CA *Can J Biochem* 55: 340-5, April 77 (Eng) DL/77AUG214

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OCHRATOXIN A AND CITRININ INDUCED NEPHROSIS IN BEAGLE DOGS. I. CLINICAL AND CLINICOPATHOLOGICAL FEATURES. Kitchen DN, Carlton WW, Tuite J *Vet Pathol* 14: 154-72, Mar 77 (Eng) DL/77AUG545

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NEONATAL AND INFANTILE HYPOGLYCEMIA DUE TO INSULIN EXCESS: NEW ASPECTS OF DIAGNOSIS AND SURGICAL MANAGEMENT. Thomas CG Jr, Underwood LE, Carney CN, Dolcourt JL, Whitt JJ *Ann Surg* 185: 505-17, May 77 (Eng) DL/77AUG635

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INCREASED INCIDENCE OF HLA-B8 IN JUVENILE-ONSET DIABETES MELLITUS. Garovoy MR, Carpenter CB, Myrberg SM, Gleason RE, Funk IB, Flood TM, Craighead JE *Transplant Proc* 9: 177-9, Mar 77 (Eng) DL/77AUG533

### Carruthers ME

PLASMA GLUCAGON LEVELS IN HAEMORRHAGIC SHOCK. Russel RC, Pardy BJ, Carruthers ME, Bloom SR *Br J Surg* 64: 285-9, Apr 77 (Eng) DL/77AUG204

### Caruso VG

MALIGNANT EXTERNAL OTITIS. Caruso VG, Griffiths CM, Bailey BJ *Tex Med* 73: 106-13, May 77 (Eng) DL/77AUG526

AGED; CASE REPORT; DIABETES MELLITUS (complications); EAR, EXTERNAL (anatomy & histology); FEMALE; HUMAN; MIDDLE AGE; OTITIS EXTERNA (complications, drug therapy, etiology); PSEUDOMONAS INFECTIONS (complications, drug therapy).

### Casey RP

ADENOSINE TRIPHOSPHATE-EVOKED CATECHOLAMINE RELEASE IN CHROMATIN GRANULES. OSMOTIC LYSIS AS A CONSEQUENCE OF PROTON TRANSLLOCATION. Casey RP, Njus D, Radda GK, Sehr PA *Biochem J* 158: 583-8, 15 Sep 76 (Eng) \*DL/77AUG172

ADENOSINE TRIPHOSPHATE (physiology); ANIMAL; CATECHOLAMINES (secretion); CATTLE; CHLORIDES; CHROMAFFIN (secretion); CULTURE MEDIA; DINITROPHENOLS (pharmacodynamics); EPINEPHRINE (secretion); IN VITRO; OSMOLAR CONCENTRATION; OSMOTIC PRESSURE; PROTEINS (secretion).

### Castello C

[EFFECT OF 2-BROMO-ALPHA-ERGOCRYPTINE ON THE RESPONSE OF THE HYPOTHALAMO-HYPOPHYSAL-ADRENAL SYSTEM TO INSULIN HYPOGLYCEMIA IN MAN] Bertolini S, Elicio N, Jacopino GE, Castello C, Pistocchi G, Barban G, Balestrieri R *Boll Soc Ital Biol Sper* 52: 1550-6, 15 Oct 76 (Ita) DL/77AUG186

[PROSTAGLANDINS AND INSULIN SECRETION: EFFECT INDOMETHACIN ON THE SERUM INSULIN RESPONSE TO GLUCAGON IN MAN] Bertolini S, Castello C, Jacopino GE, Pistocchi G, Elicio N, Balestrieri R *Boll Soc Ital Biol Sper* 52: 1576-82, 15 Oct 76 (Ita) DL/77AUG187

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Chiesi M

Union Med Can 106: 323-9, Mar 77 (Fre)  
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ADULT; AGE FACTORS; AGED; DIABETES  
MELLITUS (drug therapy); ENGLISH  
ABSTRACT; HUMAN; LACTATES (blood);  
MIDDLE AGE; PHENFORMIN (administration &  
dosage, blood, therapeutic use).

Cattani C

[CLINICAL EVALUATION OF THE HEART-  
SURGERY PATIENT IN ANTICIPATION OF  
THE INTERVENTION] Cattani C, Massaria E,  
Merli M, Pratelli EM, Zanetti G *Minerva  
Anestesiol* 43: 81-102, Feb 77 (Ita)  
DL/77AUG464

ADOLESCENCE; ADULT; AGE FACTORS;  
AGED; CHILD; PRESCHOOL;  
DIABETES MELLITUS (complications);  
ELECTROCARDIOGRAPHY; FEMALE;  
HEART CATHETERIZATION; HEART  
DISEASES (complications, physiopathology);  
HEART SURGERY; HUMAN; HYPERTENSION  
(complications); INFANT; INFANT, NEWBORN;  
MALE; MIDDLE AGE; PREGNANCY;  
PREOPERATIVE CARE; RESPIRATORY  
FUNCTION TESTS.

Cederbaum AI

EFFECT OF CHRONIC ETHANOL CONSUMPTION  
AND ACETALDEHYDE ON PARTIAL  
REACTIONS OF OXIDATIVE PHOSPHOR-  
YLATION AND CO<sub>2</sub> PRODUCTION FROM  
CITRIC ACID CYCLE INTERMEDIATES.  
Cederbaum AI, Lieber CS, Rubin E *Arch  
Biochem Biophys* 176: 525-38, Oct 76 (Eng)  
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ACETALDEHYDE (pharmacodynamics);  
ADENOSINE DIPHOSPHATE (metabolism);  
ADENOSINE TRIPHOSPHATASE (metabolism);  
ADENOSINE TRIPHOSPHATE (metabolism);  
ALCOHOL, ETHYL (pharmacodynamics);  
ANIMAL; CARBON DIOXIDE (metabolism);  
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PHOSPHORYLATION (drug effects); RATS;  
UNITED STATES GOVERNMENT  
SUPPORTED, N.I.H.; UNITED STATES  
GOVERNMENT SUPPORTED, NON-N.I.H.).

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MUSCLE METABOLISM IN RELATION TO  
MUSCLE MORPHOLOGY AND RUNNING  
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Ceiley RI

FOOT ULCERATION AND VERTEBRAL  
OSTEOMYELITIS WITH CORYNEBACTERIUM  
HAEMOLYTICUM. Ceiley RI *Arch  
Dermatol* 113: 646-7, May 77 (Eng)  
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AGED; AMPICILLIN (therapeutic use); CASE  
REPORT; CORYNEBACTERIUM INFECTIONS  
(drug therapy); DIABETES MELLITUS  
(complications); ENGLISH ABSTRACT;  
FEMALE; HUMAN; LEG ULCER (etiology);  
OSTEOMYELITIS (etiology); PROBENECID  
(therapeutic use); SPINAL DISEASES  
(complications).

Cerami A

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CM, Koenig RJ, Jones RL, Sauddek CD,  
Cerami A *Diabetes* 26: 507-9, May 77 (Eng)  
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35: 261-9, 23 Sep 76 (Eng) \*DL/77AUG27

ADULT; CORONARY DISEASE (blood);  
EXERCISE TEST; EXERTION; FATTY ACIDS,  
NONESTERIFIED (blood); GLYCERIN (blood);  
HEMODYNAMICS; HUMAN; LACTATES  
(blood); MALE; MIDDLE AGE; PYRUVATES  
(blood).

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IN VITRO PARTIAL RELIPIDATION OF  
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APOLIPOPROTEINS (blood); CHOLESTEROL  
ESTERS (blood); CHOLESTEROL (blood);  
FATTY ACIDS, NONESTERIFIED (blood); GEL  
DIFFUSION TESTS; HUMAN;  
IMMUNOELECTROPHORESIS; LIPIDS (blood);  
LIPOPROTEINS (blood); LIPOPROTEINS, HDL  
(blood); LIPOPROTEINS, LDL (blood);  
PHOSPHOLIPIDS (blood); PROTEIN BINDING;  
TRIGLYCERIDES (blood).

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MULTIPLE SITES OF INTERACTION  
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ADENINE NUCLEOTIDE TRANSLOCASE  
(metabolism); ADENOSINE TRIPHOSPHATASE  
(antagonists & inhibitors); ADENOSINE  
TRIPHOSPHATE (metabolism); ANIMAL;  
ATRACTYLOSID (pharmacodynamics);  
BINDING SITES; CATTLE; KINETICS; MALE;  
MEMBRANES (drug effects, enzymology);  
MITOCHONDRIA, LIVER (drug effects,  
enzymology, metabolism); MITOCHONDRIA,  
MUSCLE; MUSCLE PROTEINS  
(pharmacodynamics); MYOCARDIUM;  
PROTEIN BINDING; RATS.

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DIABETES AND PLATELET ADHESIVENESS  
[EDITORIAL]. Chandalia HB *J Assoc Physicians  
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DIABETES MELLITUS (blood); HUMAN;  
HYPOGLYCEMIC AGENTS  
(pharmacodynamics); PLATELET  
ADHESIVENESS (drug effects); PLATELET  
AGGREGATION (drug effects).

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SIN INDUCED HYPERGLYCAEMIA. Singh  
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Menahem LA, Chaudhuri SN, Shipp JC  
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ACUTE DISEASE; ANGIOGRAPHY;  
ARRHYTHMIA (pathology, therapy);  
CORONARY VESSELS (radiography);  
ELECTRIC COUNTERSHOCK; FIBRINOLYTIC  
AGENTS (therapeutic use); GLUCAGON  
(therapeutic use); HEART BLOCK (pathology,  
therapy); HUMAN; HYALURONIDASE  
(therapeutic use); MYOCARDIAL  
CONTRACTION (drug effects); MYOCARDIAL  
INFARCT (complications, mortality, pathology,  
therapy); MYOCARDIUM (metabolism);  
SHOCK, CARDIOGENIC (therapy).

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BLOOD PRESSURE; EDEMA (diagnosis);  
FEMALE; FETAL DEATH; FUTUROLOGY;  
GESTATIONAL AGE; HUMAN;  
HYPERTENSION (diagnosis); INFANT,  
NEWBORN; PRE-ECLAMPSIA (diagnosis);  
PREGNANCY IN DIABETES (diagnosis);  
PREGNANCY TOXEMIAS (diagnosis);  
PREGNANCY; PROTEINURIA (diagnosis);  
RISK.

Chesnut T

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EPINEPHRINE (pharmacodynamics); FASTING;  
FATTY ACIDS, NONESTERIFIED (blood);  
GLUCAGON (blood); GLYCERIN (blood);  
GLYCOGEN (metabolism);  
HYDROXYBUTYRATES (blood); INSULIN  
(blood); LACTATES (blood); MALE;  
MONKEYS; PAPIO; SOMATOTROPIN  
RELEASE INHIBITING HORMONE  
(pharmacodynamics); STRESS,  
PSYCHOLOGICAL (physiology); TIME  
FACTORS; UNITED STATES GOVERNMENT  
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ON THE PROBLEM OF THE RELEASE OF  
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AMINO ACID SEQUENCE; AMINO ACIDS (analysis); ANIMAL; BIOLOGICAL ASSAY; CHROMATOGRAPHY, THIN LAYER; ELECTROPHORESIS, PAPER; METHODS; MONOGRAPH (mortality); OLIGOPEPTIDES (chemical synthesis, pharmacodynamics); RATS; SOMATOTROPIN (chemical synthesis, pharmacodynamics); TIBIA (drug effects).

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ADULT; AGED; ARTHRITIS, RHEUMATOID (complications, drug therapy); BLOOD SUGAR; CLINICAL RESEARCH; DIABETES MELLITUS (complications, drug therapy); DICLOFENAC (therapeutic use); DRUG INTERACTIONS; GLIBENCLAMIDE (therapeutic use); GLYCOSURIA; HUMAN; MIDDLE AGE; MONOGRAPH (mortality); PHENYLACETATES (therapeutic use).

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RELEASE OF FREE FATTY ACIDS BY THE RAT KIDNEY. Chorvathova V, Ondreicka R, Dzurik R. *Physiol Bohemoslov* 115-20, 1977 (Eng) DL/77AUG504

ANIMAL; CALCIUM (pharmacodynamics); EPINEPHRINE (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (pharmacodynamics); KETOGLUTARIC ACIDS (pharmacodynamics); KIDNEY CORTEX (metabolism); MALE; PYRUVATES (pharmacodynamics); RATS.

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STUDIES ON GLUCOSE ISOMERASE FROM A STREPTOMYCES SPECIES. Chou CC, Ladisch MR, Tsao GT. *Appl Environ Microbiol* 32: 489-93, Oct 76 (Eng) \*DL/77AUG154

CARBOHYDRATE ISOMERASES (biosynthesis, metabolism); COBALT (pharmacodynamics); FRUCTOSE (biosynthesis); GLUCOSE (metabolism); HEAT; MAGNESIUM (pharmacodynamics); STREPTOMYCES (enzymology).

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BIOLOGICAL TRANSPORT (drug effects); CELLS, CULTURED; CHICK EMBRYO; CHLOROMERCURIPHENYLSULFONATE (pharmacodynamics); CHROMATOGRAPHY, PAPER; COMPARATIVE STUDY; CULTURE MEDIA; CYCLOHEXIMIDE (pharmacodynamics); DEOXY SUGARS (metabolism); DEOXYGLUCOSE (metabolism); ETHYLMALIMIDE (pharmacodynamics); GLUCOSE (metabolism); HEXOKINASE (metabolism); IODOACETAMIDE (pharmacodynamics); KINETICS; METHYLGLUCOSIDES (metabolism); METHYLGLYCOSIDES (metabolism); STARVATION; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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CONGENITAL HYPOPIUITARISM ASSOCIATED WITH NEONATAL HYPOGLYCEMIA AND MICROPHALLUS: EFFECT OF GH THERAPY. Cacciari E, Cicognani A, Pirazzoli P, Tassoni P, Bernardi F, Salar-di S, Zappulla F, Mazzanti L. *Helv Paediatr Acta* 31: 481-5, Apr 77 (Eng) DL/77AUG332

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ADULT; BIGUANIDES (adverse effects, therapeutic use); BLOOD SUGAR (analysis); DIABETES MELLITUS (drug therapy); DRUG THERAPY, COMBINATION; HUMAN; INSULIN (administration & dosage); SULFONYLUREA COMPOUNDS (therapeutic use).

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CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF HUMAN UMBILICAL ARTERY. Clyman RI, Manganiello VC, Lovell-Smith CJ, Vaughan M. *Am J Physiol* 231: 1074-81, Oct 76 (Eng) \*DL/77AUG151

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); CALCIUM (metabolism); FEMALE; GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); IN VITRO; MICROSOMES (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MUSCLE, SMOOTH (metabolism, ultrastructure); PROTEIN KINASE (metabolism); UMBILICAL ARTERIES (metabolism, ultrastructure); VASCULAR RESISTANCE.

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PORTACAVAL DIVERSION FOR SEVERE HYPERCHOLESTEROLEMIA. REPORT OF A CASE WITH MEASUREMENTS OF GLUCOSE TOLERANCE, INSULIN, AND GLUCAGON LEVELS. Weglicki WB, Ganda OP, Soeldner JS, Murawski BJ, Cohn LH, Couch NP. *Arch Surg* 112: 634-6, May 77 (Eng) DL/77AUG644

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COMPARATIVE EFFECTS OF ACEBUTOLOL AND PRACLOLOL ON THE LIPOLYTIC RESPONSE TO ISOPRENALINE. Gibbons DO, Lant AF, Ashford A, Collins RF, Pinder S. *Br J Clin Pharmacol* 3: 177-84, Feb 76 (Eng) \*DL/77AUG1

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SOME ASPECTS OF FOETAL AND UTEROPLACENTAL METABOLISM IN COWS WITH INDWELLING UMBILICAL AND UTERINE VASCULAR CATHETERS. Comline RS, Silver M. *J Physiol (Lond)* 260: 571-86, Sep 76 (Eng) \*DL/77AUG89

ACETATES (blood); ANIMAL; BLOOD FLOW VELOCITY; BLOOD PRESSURE; BLOOD SUGAR (metabolism); CATHETERIZATION; CATTLE, FEMALE; FETAL HEART (physiology); FETUS (metabolism); HEART RATE; HYDROGEN-ION CONCENTRATION (physiology); LACTATES (blood); OXYGEN CONSUMPTION; PLACENTA (metabolism); PREGNANCY; UMBILICAL ARTERIES; UMBILICAL VEINS; UREA (blood); UTERUS (blood supply, metabolism).

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ROAST PIG AND SCIENTIFIC DISCOVERY. PART I. Comroe JH Jr. *Am Rev Respir Dis* 115: 853-60 contd, May 77 (Eng) DL/77AUG617

ANIMAL; AORTIC COARCTATION (history); AUSCULTATION (history); BACTERIOLOGICAL TECHNIQUES; CHOLECYSTOGRAPHY (history); DIABETES MELLITUS (history); EPHEDRINE (history); EPINEPHRINE (history); ERGOTOXINE (history); HISTORICAL ARTICLE, HISTORY OF MEDICINE, 18TH CENT.; HISTORY OF MEDICINE, 19TH CENT.; HISTORY OF MEDICINE, 20TH CENT.; HUMAN; HYPOPHYSECTOMY (history); PENICILLINS (history); POLIOMYELITIS (history); POSITIVE-PRESSURE RESPIRATION (history); STAINS AND STAINING; SULFAPYRIDINE (history); TUBERCULOSIS, PULMONARY (history).

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ELECTROPHYSIOLOGICAL EVIDENCE FOR THE AUTOREGULATION OF BETA-CELL SECRETION BY INSULIN. Pace CS, Matschinsky FM, Lacy PE, Conant S. *Biochim Biophys Acta* 497: 408-14, 27 Apr 77 (Eng) DL/77AUG194

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COXSACKIE B2 VIRUS INFECTION AND ACUTE-ONSET DIABETES IN A CHILD. Wilson C, Connolly JM, Thomson D. *Br Med J* 1: 1008, 16 Apr 77 (Eng) DL/77AUG212

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CEREBROVASCULAR DISORDERS (prevention & control); CORONARY DISEASE (prevention & control); DIABETES MELLITUS (drug therapy); DIABETIC ANGIOPATHIES (prevention & control); DIABETIC NEUROPATHIES (prevention & control); ENGLISH ABSTRACT; FEMALE; GROWTH; HUMAN; PHYSICAL FITNESS; PREGNANCY IN DIABETES; PREGNANCY; TIME FACTORS.

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TREATMENT OF HYPERTRIGLYCERIDEMIA WITH METFORMIN. EFFECTIVENESS AND ANALYSIS OF RESULTS. Sirtori CR, Tremoli E, Sirtori M, Conti F, Paoletti R *Atherosclerosis* 26: 583-92, Apr 77 (Eng) DL/77AUG666

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ABSORPTION OF XULOSE, GLUCOSE, GLYCINE, AND FOLIC (PTEROYLGLUTAMIC) ACID IN ZAMBIAN AFRICANS WITH ANAEMIA. Cook GC *Gut* 17: 604-11, Aug 76 (Eng) \*DL/77AUG37  
ADOLESCENCE; ADULT; AGED; ANEMIA, MACROCYTIC (metabolism); ANEMIA, MEGALOBLASTIC (metabolism); BIOPSY; FEMALE; FOLIC ACID (metabolism); GLUCOSE (metabolism); GLYCINE (metabolism); HUMAN; INTESTINAL ABSORPTION; JEJUNUM (metabolism); MALE; MIDDLE AGE; NEGROID RACE; XULOSE (metabolism); ZAMBIA.

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INHIBITION OF GLUCOSE METABOLISM BY N-HEXADECANOL IN CLADOSPORIUM (AMORPHOTHECA) RESINAE. Siporin C, Cooney JJ *J Bacteriol* 128: 235-41, Oct 76 (Eng) \*DL/77AUG47

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ADDITIVE EFFECTS OF NOREPINEPHRINE AND CYCLIC AMP ON THE ACTIVATION OF THE PROTEIN KINASE FROM ADIPOSE TISSUE. Correze C, Auclair D, Nunez J *Mol Cell Endocrinol* 5: 339-47, OCT 76 (Eng) \*DL/77AUG34

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADIPOSE TISSUE (drug effects, enzymology); ANIMAL; CORTICOTROPIN (pharmacodynamics); ENZYME ACTIVATION (drug effects); EPINEPHRINE (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); KINETICS; MALE; NOREPINEPHRINE (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PROTEIN KINASE (metabolism); RATS.

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IMPROVED RESULTS WITH FEMOROPLOTEAL VEIN GRAFTS FOR LIMB SALVAGE. LoGerfo FW, Corson JD, Mannick JA *Arch Surg* 112: 567-70, May 77 (Eng) DL/77AUG643

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EFFECT OF FOOD INGESTION ON INTESTINAL GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) SECRETION IN NOR-

MAL AND GASTRECTOMIZED SUBJECTS. Marco J, Hedo JA, Villanueva ML, Calle C, Corujedo A, Segovia JM *Diabetologia* 13: 131-5, Apr 77 (Eng) DL/77AUG303

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[TECHNIC OF PAN-RETINAL PHOTOCOAGULATION IN DIABETIC RETINOPATHY] Coscas MG *Bull Soc Ophthalmol Fr* 76: 241-6, Mar 76 (Fre) DL/77AUG223  
DIABETIC RETINOPATHY (surgery); HUMAN; LIGHT COAGULATION (methods).

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[COMPARATIVE EFFECTS OF PENTAGASTRIN AND CAERULEIN ON THE INSULIN SECRETION IN THE ANESTHESIZED DOG] Costa G, Scarpignato C *Pharmacol [Sci]* 32: 195-204, Mar 77 (Ita) DL/77AUG269  
ANESTHESIA; ANIMAL; CAERULEIN (pharmacodynamics); COMPARATIVE STUDY; DOGS; ENGLISH ABSTRACT; FEMALE; INSULIN (secretion); MALE; PANCREAS (physiology); PENTAGASTRIN (pharmacodynamics); SECRETORY RATE (drug effects).

## Cote MG

THE EFFECT OF 6-HYDROXYDOPAMINE-INDUCED HEPATIC SYMPATHECTOMY ON THE EARLY HYPERGLYCEMIC RESPONSE TO SURGICAL TRAUMA UNDER ANESTHESIA. Lauth WW, Cote MG *J Trauma* 17: 270-4, Apr 77 (Eng) DL/77AUG389

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PORTACAVAL DIVERSION FOR SEVERE HYPERCHOLESTEROLEMIA. REPORT OF A CASE WITH MEASUREMENTS OF GLUCOSE TOLERANCE, INSULIN, AND GLUCAGON LEVELS. Weglicki WB, Ganda OP, Soeldner JS, Murawski BJ, Cohn LH, Couch NP *Arch Surg* 112: 634-6, May 77 (Eng) DL/77AUG644

## Court JM

CHILDHOOD OBESITY. Court JM *Med J Aust* 1: 5-6, 19 Jun 76 (Eng) \*DL/77AUG101  
ADIPOSE TISSUE (growth & development, physiopathology); ADOLESCENCE; AFFECTIVE DISTURBANCES (complications); CHILD; DIET; REDUCING; DIETARY HABITS; FEMALE; HUMAN; INFANT; OBESITY (diet therapy, etiology, physiopathology).

## Cox JE

DEVELOPMENT OF OBESITY IN DIABETIC MICE PAIR-FED WITH LEAN SIBLINGS. Cox JE, Powley TL *J Comp Physiol Psychol* 91: 347-58, Apr 77 (Eng) DL/77AUG355  
ADIPOSE TISSUE (metabolism); ANIMAL; BODY COMPOSITION; BODY WEIGHT; COMPARATIVE STUDY; CONDITIONING; OPERANT; DIABETES MELLITUS (metabolism); FEEDING BEHAVIOR; GROWTH; MALE; MICE; MICE, INBRED C57BL; OBESITY (etiology); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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INCREASED INCIDENCE OF HLA-B8 IN JUVENILE-ONSET DIABETES MELLITUS. Garovoy MR, Carpenter CB, Myrberg SM, Gleason RE, Funk IB, Flood TM, Craighead JE *Transplant Proc* 9: 177-9, Mar 77 (Eng) DL/77AUG533

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HYPERGLUCAGONEMIA AND ALTERED RESPONSIVENESS OF HEPATIC ADENYLATE CYCLASE-ADENOSINE 3,5-MONOPHOSPHATE SYSTEM TO HORMONAL STIMULATION DURING CHRONIC INGESTION OF DL-ETHIONINE. Craven PA, Derubertis FR *Biochim Biophys Acta* 497: 415-27, 27 Apr 77 (Eng) DL/77AUG195

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, pharmacodynamics); ADENYLATE CYCLASE (metabolism); ANIMAL; BLOOD SUGAR (metabolism); ENZYME ACTIVATION; ETHIONINE (pharmacodynamics); GLUCAGON (blood, metabolism); IN VITRO; ISOPROTERENOL (pharmacodynamics); LIVER (drug effects, metabolism); MALE; PROSTAGLANDINS E (pharmacodynamics); PROTEIN KINASE (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

## Crepaldi G

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ACETOACETATES (blood); ANIMAL; BLOOD SUGAR (analysis); BODY TEMPERATURE; BODY WEIGHT; BRAIN (metabolism); CEREBROVASCULAR CIRCULATION; DNA (metabolism); FEMALE; FETUS (physiology); GLUCOSE (metabolism); GROWTH; HYDROXYBUTYRATES (blood); KETONE BODIES (metabolism); LACTATES (blood); OXYGEN CONSUMPTION; OXYGEN (blood); PARTIAL PRESSURE; RATS; STARVATION (metabolism).

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BENZENESULFONATES (therapeutic use); CALCIUM DOBESYLATE (therapeutic use); CAPILLARY RESISTANCE (drug effect); CLINICAL RESEARCH; DIABETIC RETINOPATHY (drug therapy); FEMALE; HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; PLACEBOS; RETINAL HEMORRHAGE (drug therapy).

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(pharmacodynamics, secretion); ARACHIDONIC ACIDS (pharmacodynamics); BLOOD PLATELETS (analysis, drug effects, metabolism); COLLAGEN (administration & dosage, pharmacodynamics); COMPARATIVE STUDY; DOSE-RESPONSE RELATIONSHIP, DRUG; GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (analysis); GUANOSINE TRIPHOSPHATE (metabolism); HUMAN; INDOMETHACIN (pharmacodynamics); MALONDIALDEHYDE (biosynthesis); PLATELET AGGREGATION (drug effects); SEROTONIN (pharmacodynamics, secretion).

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(pharmacodynamics); IN VITRO; KETONE BODIES (metabolism); LIVER (metabolism); OLEIC ACIDS (pharmacodynamics); RATS; TRIGLYCERIDES (metabolism).

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CERAMIDES; CONCAVALIN A; ELECTRIC CONDUCTIVITY; GANGLIOSIDES; GLYCOLIPIDS; MEMBRANES, ARTIFICIAL; METHYLGALACTOSIDES; MODELS, BIOLOGICAL.

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ADOLESCENCE; BLOOD SUGAR (metabolism); CHILD; DIABETES MELLITUS (drug therapy); DIABETES MELLITUS, JUVENILE (metabolism, physiopathology); DOSE-RESPONSE RELATIONSHIP; DRUG; EXERTION; GLUCOSE TOLERANCE TEST; GLYCOSURIA; HUMAN; INSULIN (therapeutic use); KETONE BODIES (urine); MALE; MUSCLES (physiology).  
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ADOLESCENCE; ADULT; AMINO ACIDS (blood); AMINO ACIDS, DICARBOXYLIC (blood); AMINO ACIDS, ESSENTIAL (blood); BLOOD PROTEINS (analysis); CHILD; DIABETES MELLITUS, JUVENILE (blood); FEMALE; HUMAN; MALE; SERUM ALBUMIN (analysis); SERUM GLOBULINS (analysis).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); ADULT; BLOOD SUGAR (metabolism); DIABETES MELLITUS (drug therapy, metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (diagnostic use); HUMAN; HYDROXYBUTYRATES (blood); INSULIN (therapeutic use); MALE; MIDDLE AGE; TIME FACTORS.

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(pharmacodynamics); BENZIODARONE

(pharmacodynamics); CHIMPANZEES;

DIURETICS (pharmacodynamics);

ETHAMBUTOL (pharmacodynamics);

HALOFENATE (pharmacodynamics); HUMAN;

MERSALYL (pharmacodynamics);

PROBENECID (pharmacodynamics); REVIEW;

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SULFINPYRAZONE (pharmacodynamics); URIC

ACID (urine); ZOXAZOLAMINE

(pharmacodynamics).

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[PROBABILITY, TRUTH AND APPROXIMATION OF THE TRUTH. EPISTEMOLOGICAL CRITERIA OF PREFERABILITY BETWEEN THEORIES; TRUTH AS A REGULATIVE IDEAL; AND HISTORICAL EXEMPLIFICATION OF PROGRESS IN THE KNOWLEDGE OF DIABETES] Antiseri D, Federspil G *Med Secoli* 13: 505-45, Sep-Dec 76 (Ita) DL/77AUG438

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ADIPOSE TISSUE (metabolism); ADULT; BODY

HEIGHT; BODY WEIGHT;

CHROMATOGRAPHY, GAS;

CRYSTALLIZATION;

DEHYDROEPIANDROSTERONE (metabolism);

FEMALE; HUMAN; MALE; MIDDLE AGE;

OBESITY (metabolism).

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CHEMOTAXIS, LEUKOCYTE; CHILD; DIABETES MELLITUS (blood); DIABETES MELLITUS, JUVENILE (blood); FEMALE; HUMAN; MALE; MIDDLE AGE; NEUTROPHILS (physiology).

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[MYOCARDIAL INFARCTION: COMPARATIVE STUDY OF PRINCIPAL RISK FACTORS IN THE TWO SEXES] Blanc JJ, Boschat J, Morin JF, Granatelli D, Floch H, Penther P *Arch Mal Coeur* 69: 967-75, Sep 76 (Fre) \*DL/77AUG158

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SOMATOTROPIN RELEASE INHIBITING  
HORMONE (immunology, pharmacodynamics);  
THYROTROPIN RELEASING HORMONE  
(pharmacodynamics); THYROTROPIN (blood).

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SEIZURES: HYPEROSMOLAR NON-  
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ACIDOSIS (complications, drug therapy); AGE  
FACTORS; AGED; COMA (etiology);  
DEHYDRATION (complications, drug therapy);  
EPILEPSY (drug therapy, etiology); FEMALE;  
HUMAN; HYDANTOINS (therapeutic use);  
HYPERGLYCEMIA (complications, drug  
therapy); ISOTONIC SOLUTIONS; MALE;  
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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE  
(blood); DIAGNOSIS, DIFFERENTIAL;  
GLUCAGON (diagnostic use); HEPATITIS A  
(blood, diagnosis); HEPATITIS B (blood);  
HEPATITIS (diagnosis); HUMAN; JAUNDICE,  
OBSTRUCTIVE (blood, diagnosis).

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DL/77AUG371  
DIABETIC NEUROPATHIES (familial &  
genetic); GENE FREQUENCY; GENES,  
DOMINANT; GENES, RECESSIVE; HUMAN;  
OPTIC ATROPHY (familial & genetic);  
SYNDROME.

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AGE FACTORS; AGED; ARTERIOSCLEROSIS  
(complications); DIABETES MELLITUS  
(complications); FEMALE; HUMAN;  
HYPERTENSION (complications); ISCHEMIA;  
MALE; MIDDLE AGE; OPTIC DISK (pathology);  
OPTIC NERVE (blood supply, pathology); OPTIC  
NEURITIS (drug therapy, etiology, pathology);  
SEX FACTORS; TEMPORAL ARTERIES  
(pathology); TEMPORAL ARTERITIS  
(pathology); VISUAL ACUITY.

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NEWBORN INFANT] Francois R *Pediatr* 32:  
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BLOOD SUGAR (analysis, metabolism); FATTY  
ACIDS (metabolism); FETAL BLOOD (analysis);  
GLUCAGON (pharmacodynamics);  
GLUCONEOGENESIS; GLYCOLYSIS; HUMAN;  
HYPOGLYCEMIA (metabolism); INFANT, LOW  
BIRTH WEIGHT; INFANT, NEWBORN;  
INFANT, PREMATURE; INFANT, SMALL FOR  
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(complications); DIABETES MELLITUS  
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effects); FEMALE; GOUT (complications,  
physiopathology); HUMAN; HYPERLIPEMIA  
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PROTEINS; FATTY ACIDS, NONESTERIFIED  
(metabolism); GLUCOSE (metabolism);  
HUMAN; INSULIN (metabolism); KETONE  
BODIES (metabolism); MALE; NITROGEN  
(metabolism); PARENTERAL FEEDING;  
PARENTERAL HYPERALIMENTATION;  
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GOVERNMENT SUPPORTED, N.I.H. ; UREA  
(blood).

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TRANSPORT, ACTIVE (drug effects);  
COMPARATIVE STUDY; ELECTROLYTES  
(metabolism); IN VITRO; INSULIN  
(pharmacodynamics); LIVER (cytology);  
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MUSCLES (cytology); OROTIC ACID  
(metabolism); RATS; RNA (biosynthesis);  
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ADOLESCENCE; ADULT; ABO BLOOD-GROUP SYSTEM; CAUCASIAN RACE; DIABETES MELLITUS, JUVENILE (immunology); HISTOCOMPATIBILITY ANTIGENS (analysis); HL-A (analysis); HUMAN; SEASONS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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(immunology); DIABETES MELLITUS, JUVENILE (immunology); DIABETES MELLITUS, JUVENILE (familial & genetic); FEMALE; HISTOCOMPATIBILITY ANTIGENS (analysis); HISTOCOMPATIBILITY TESTING; HL-A (analysis); HUMAN; INFANT; ISRAEL; JEWS; MALE.

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ANIMAL; BLOOD SUGAR; BODY WEIGHT; DIABETES MELLITUS (therapy); ISLANDS OF LANGERHANS (transplantation); PANCREAS (surgery); RATS; RATS, INBRED LEW; SUBMANDIBULAR GLAND (surgery); TRANSPLANTATION, ISOGENEIC.

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ACIDOSIS (prevention & control); DIABETES MELLITUS (drug therapy); FASTING; GLUCAGON (physiology); HALF-LIFE; HUMAN; HYPERGLYCEMIA (drug therapy); INSULIN (deficiency); ISLANDS OF LANGERHANS (physiology); SOMATOTROPIN RELEASE INHIBITING HORMONE (physiology, therapeutic use).

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2,3-DIPHOSPHOGLYCERATE, NUCLEOTIDE PHOSPHATE, AND ORGANIC AND INORGANIC PHOSPHATE LEVELS DURING THE EARLY PHASES OF DIABETIC KETOACIDOSIS. Kanter Y, Gerson JR, Bessman AN *Diabetes* 26: 429-33, May 77 (Eng) DL/77AUG286

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AMNIOTIC FLUID (analysis); ERYTHROBLASTOSIS, FETAL (metabolism); FEMALE; GESTATIONAL AGE; HUMAN; HYDROCORTISONE (analysis); LUNG (embryology); PHOSPHATIDYLCHOLINES (analysis); PREGNANCY IN DIABETES (metabolism); PREGNANCY COMPLICATIONS; PREGNANCY TOXEMIAS (metabolism); PREGNANCY; PRENATAL DIAGNOSIS; RISK; SPHINGOMYELINS (analysis).

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ACEBUTOLOL (pharmacodynamics); ADULT; ANIMAL; BLOOD PRESSURE (drug effects); COMPARATIVE STUDY; FATTY ACIDS, NONESTERIFIED (metabolism); HEART RATE (drug effects); HUMAN; IN VITRO; ISOPROTERENOL (antagonists & inhibitors); LIPIDS (metabolism); MALE; MIDDLE AGE; PLACEBOS; PRACTOLOL (pharmacodynamics); PROPANOLOL (pharmacodynamics); RATS.

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STUDIES ON THE DISULFIDE BONDS OF GLYCOPROTEIN HORMONES. COURSE OF REDUCTION OF BOVINE LUTEINIZING HORMONE, BOVINE THYROID-STIMULATING HORMONE, AND THEIR SUBUNITS. Pierce JG, Giudice LC, Reeve JR *J Biol Chem* 251: 6388-91, 25 Oct 76 (Eng) \*DL/77AUG51

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ADRENAL GLANDS (analysis); ALANINE AMINOTRANSFERASE (analysis); ANIMAL; ASCORBIC ACID (analysis); ASPARTATE AMINOTRANSFERASE (analysis); BLOOD SUGAR (analysis); BODY WATER; CALCIUM (blood); CHICKENS; CHOLESTEROL (blood);

ENGLISH ABSTRACT; HEMATOCRIT; HEMOGLOBINS (analysis); INSECTICIDES (adverse effects); LIPIDS (analysis); LIVER GLYCOGEN (analysis); PHOSPHORUS (blood); SUCCINATE DEHYDROGENASE (analysis).

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[PHARMACOKINETICAL COMPARISON OF GLUCOSE AND OLIGOSACCHARIDES FOR ORAL GLUCOSE TOLERANCE TEST (AUTHORS TRANSL.) Puy U, Gladtko E *Monatsschr Kinderheilkd* 125: 147-52, Mar 77 (Ger) DL/77AUG450

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BLOOD SUGAR (analysis); CENTRAL NERVOUS SYSTEM DISEASES (diagnosis); CEREBRAL ARTERIOSCLEROSIS (diagnosis); CYCLOTHYMIC PERSONALITY (diagnosis); DIABETES MELLITUS (blood); DIABETIC NEUROPATHIES (diagnosis); ENGLISH ABSTRACT; EXTRAPYRAMIDAL DISORDERS (diagnosis); HUMAN; INSULIN (blood); INTELLIGENCE TESTS; POLYNEURITIS (diagnosis).

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HORMONE (metabolism); RECEPTORS, INSULIN (metabolism); TRIIODOTHYRONINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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## Hakanson R

(metabolism); POTASSIUM (metabolism); SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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**COLCHICINE INHIBITS STIMULATED RELEASE OF GASTRIC HISTAMINE BUT NOT ACTIVATION OF HISTIDINE DECARBOXYLASE.** Hakanson R, Rehfeld JF, Liedberg G, Sundler F *Experientia* 33: 305-6, 15 Mar 77 (Eng) DL/77AUG265

ANIMAL; CARBOXY-LYASES (metabolism); COLCHICINE (pharmacodynamics); GASTRIC MUCOSA (drug effects, metabolism); HISTAMINE LIBERATION (drug effects); HISTIDINE DECARBOXYLASE (metabolism); INSULIN (pharmacodynamics); MALE; PENTAGASTRIN (pharmacodynamics); RATS.

**ACCUMULATION OF DOPAMINE IN MOUSE PANCREATIC B-CELLS FOLLOWING INJECTION OF L-DOPA. LOCALIZATION TO SECRETORY GRANULES AND INHIBITION OF INSULIN SECRETION.** Ericson LE, Hakanson R, Lundquist I *Diabetologia* 13: 117-24, Apr 77 (Eng) DL/77AUG301

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**DEFICITS IN FOOD AND WATER INTAKE AFTER KNIFE CUTS THAT DEplete STRIATAL DA OR HYPOTHALAMIC NE IN RATS.** Alheid GF, McDermott L, Kelly J, Halaris A, Grossman SP *Pharmacol Biochem Behav* 6: 273-87, Mar 77 (Eng) DL/77AUG503

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ANIMAL; BLOOD SUGAR (analysis); CALCIUM (blood); COPPER (blood); DIABETES MELLITUS (blood, chemically induced, drug therapy); DITHIZONE; INSULIN (therapeutic use); IRON (blood); MINERALS (blood); POTASSIUM (blood); RATS; SODIUM (blood); ZINC (blood).

**SERUM MINERAL CHANGES IN ALLOXAN DIABETES BEFORE AND AFTER TREATMENT WITH SOME HYPOGLYCEMIC DRUGS.** Halim D, Khalifa K, Awadallah R, El-Dessouky EA, Hafez T, El-Hawary Z *Z Ernahrungswiss* 16: 39-43, Mar 77 (Eng) DL/77AUG567

ALLOXAN DIABETES (blood, drug therapy); ANIMAL; BLOOD SUGAR (analysis); CALCIUM (blood); COPPER (blood); GLIBENCLAMIDE (therapeutic use); HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use); IRON (blood); MALE; MINERALS (blood); POTASSIUM (blood); RATS; SODIUM (blood); ZINC (blood).

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**FAT MOBILIZATION IN PIETRAIN AND LARGE WHITE PIGS.** Wood JD, Gregory NG, Hall GM, Lister D *Br J Nutr* 37: 167-86, Mar 77 (Eng) DL/77AUG191

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**EFFECT OF ETHANOL AND LACTATE ON THE BASAL AND GLUCAGON-ACTIVATED CYCLIC AMP FORMATION IN ISOLATED HEPATOCYTES.** Zederman R, Low H, Hall K *FEBS Lett* 75: 291-4, 15 Mar 77 (Eng) DL/77AUG270

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ADRENAL CORTEX HORMONES (metabolism); ADULT; AMNIOTIC FLUID (analysis); ANIMAL; FEMALE; HUMAN; INFANT, NEWBORN; INSULIN (physiology); LUNG (embryology, metabolism, physiology); PALMITIC ACIDS (metabolism); PHOSPHATIDYLCHOLINES (biosynthesis); PHOSPHATIDYLGLYCEROLS (biosynthesis); PHOSPHATIDYLINOSITOLS (biosynthesis); PHOSPHOLIPIDS (biosynthesis); PHOSPHORUS (metabolism); PREGNANCY; PULMONARY ALVEOLI (physiology); PULMONARY CIRCULATION; PULMONARY SURFACTANT (analysis, physiology); RESPIRATORY DISTRESS SYNDROME (prevention & control); REVIEW; SYMPATHOMIMETICS (pharmacodynamics); THYROXINE (physiology).

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ACIDOSIS (diagnosis); ACIDOSIS, DIABETIC (diagnosis); ALKALOSIS (diagnosis); BICARBONATES (blood); CASE REPORT; DIAGNOSIS, DIFFERENTIAL; FEMALE; HUMAN; KETOSIS, DIABETIC (diagnosis); LACTATES (blood); MIDDLE AGE.

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CATALYSIS; CHEMISTRY, ANALYTICAL (instrumentation); EVALUATION STUDIES; GLUCOSE OXIDASE; GLUCOSE (analysis); METHODS.

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ENGLISH ABSTRACT; FASTING; FEMALE; GLUCOSE TOLERANCE TEST (methods); HUMAN; PREGNANCY IN DIABETES (diagnosis); PREGNANCY.

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ANIMAL; DIABETES MELLITUS (drug therapy); DOGS; HUMAN; SOMATOTROPIN RELEASE INHIBITING HORMONE (physiology, therapeutic use).

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**[EFFECT OF GLUCOSE AND GLYCINE ON GASTRIC EMPTYING (AUTHORS TRANSL.)]** Miwa T, Tani N, Harasawa S, Suzuki S, Miwa M *J Jpn Soc Intern Med* 65: 681-4, 10 Jul 76 (Jpn) \*DL/77AUG82

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AVIATION MEDICINE; BLOOD SUGAR (analysis); DIABETES MELLITUS (diagnosis, etiology); HUMAN; SYPHILIS (diagnosis).

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ANEMIA (physiopathology); ANGINA PECTORIS (physiopathology); ANIMAL; ANOXIA (physiopathology); BLOOD; DIABETES MELLITUS (physiopathology); DIPHOSPHOGLYCERIC ACIDS (blood); ERYTHROCYTES (metabolism); EXERTION; HEMOGLOBINOPATHIES (physiopathology); HEMOGLOBINS (metabolism); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); LIVER CIRRHOSIS (physiopathology); OXYGEN (blood); OXYHEMOGLOBIN; PHOSPHATES

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ADMINISTRATION, ORAL; ADULT; AGED; ANTIBODIES, VIRAL (analysis); ANTIBODY FORMATION; DIABETES MELLITUS (complications, drug therapy, immunology); FEMALE; HEPATITIS B SURFACE ANTIGEN; HEPATITIS B (complications); HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage); INSULIN (administration & dosage, therapeutic use); MALE; MIDDLE AGE.

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ADULT; AGED; BILIRUBIN (blood); BLOOD PROTEINS (metabolism); BLOOD SUGAR (metabolism); CLINICAL RESEARCH; CLOFAZIMINE (toxicity, therapeutic use); DRUG EVALUATION; FASTING; FEMALE; HUMAN; LEPROSY (blood, drug therapy); LEUKOCYTE COUNT; LONG TERM CARE; MALE; MIDDLE AGE.

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DIABETIC RETINOPATHY (surgery); HUMAN; LASER COAGULATION (methods).

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[CARBOHYDRATE METABOLISM OF INFANTS WITH PRENATAL DYSTROPHY AND INFANTS OF DIABETIC MOTHERS. GLUCOSE TOLERANCE AND INSULIN SECRETION IN THE FIRST WEEK OF LIFE (AUTHORS TRANSL.) Pollak A, Havelle L *Paediatr Paedol* 12: 127-36, 1977 (Ger) DL/77AUG478

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AGED; ASPARTIC ACID (pharmacodynamics); FEMALE; GLUCOSE (metabolism); HUMAN; MALE; MIDDLE AGE; PREDIABETIC STATE (drug therapy); WOUND HEALING (drug effects); ZINC (pharmacodynamics, therapeutic use).

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BINDING SITES; GLUCOSE; HEXOKINASE (metabolism); ISOENZYMES (metabolism); KINETICS; MATHEMATICS; PROTEIN BINDING; SACCCHAROMYCES CEREVISIAE (enzymology); SPECTROMETRY, FLUORESCENCE; TEMPERATURE.

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ANIMAL: BLOOD SUGAR (metabolism); BODY TEMPERATURE REGULATION (drug effects); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (pharmacodynamics); GLYCERIN (blood); MALE; OXYGEN CONSUMPTION (drug effects); PHENTOLAMINE (pharmacodynamics); PIGEONS (blood, physiology); PROPANOLOL (pharmacodynamics); SHIVERING (drug effects); TEMPERATURE.

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(complications); ENGLAND; HISTOPLASMOSIS  
(complications, pathology); HUMAN; LIVER  
(pathology); MALE; MIDDLE AGE; MOUTH  
DISEASES (complications, pathology); ULCER  
(pathology).

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SHEEP AT REST AND DURING EXERCISE.  
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THROMBOPHLEBITIS: TREATMENT WITH  
FIBRINOLYTIC ENHANCEMENT. Jarrett PE,  
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ADULT; DRUG THERAPY, COMBINATION;  
FIBRINOLYSIS (drug effects); HUMAN; MALE;  
MIDDLE AGE; PHENFORMIN  
(pharmacodynamics, therapeutic use);  
RECURRENCE; STANZOLOL  
(pharmacodynamics, therapeutic use);  
THROMBOPHLEBITIS (drug therapy).

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MELLITUS AND CHILDHOOD OBESITY]  
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ANESTHESIA; ANIMAL; CARBACHOL  
(pharmacodynamics); CLONIDINE  
(pharmacodynamics); DOGS; DRUG  
INTERACTIONS; FEMALE; GASTRIC  
FISTULA; GASTRIC JUICE (secretion);  
INSULIN (pharmacodynamics); RATS; VAGUS  
NERVE (physiology).

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EXPERIMENTAL PANCREATOCODUODENAL  
ALLOTTRANSPLANTATION: STUDIES IN  
THE IMMUNOSUPPRESSED PIG. Jensen  
SL, Nielsen OV, Kuhl C, Petri M *Dan Med Bull*  
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ANIMAL; DUODENUM (transplantation);  
FEMALE; GLUCOSE TOLERANCE TEST;  
GRAFT REJECTION; IMMUNOSUPPRESSION;  
INSULIN (secretion); MALE; PANCREAS  
(pathology, physiopathology, transplantation);  
PANCREATECTOMY; SWINE; TIME  
FACTORS; TRANSPLANTATION,  
ALLOGENEIC.

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ADOLESCENCE; ADULT; DIABETES MELLITUS (therapy); DIABETES MELLITUS, JUVENILE (therapy); DIABETIC NEPHROPATHIES (therapy); HEMODIALYSIS; HUMAN; KIDNEY (transplantation); LIFE EXPECTANCY.

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ADRENAL CORTIX HORMONES (blood); ANIMAL; BLOOD PRESSURE; BLOOD SUGAR (analysis); CARBON DIOXIDE (blood); CORTICOTROPIN (blood); ENDOCRINE GLANDS (physiopathology); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; FETAL ANOXIA (blood, metabolism, physiopathology); FETAL HEART; HEART RATE; LABOR; LACTATES (blood); OXYGEN (blood); PARTIAL PRESSURE; PREGNANCY; SHEEP.

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ACRYLAMIDES, ANIMAL, CYANOGEN BROMIDE, DEXTRAN; DRUG STABILITY; INSULIN (secretion); MACROMOLECULAR SYSTEMS, MALE; RATS; RECEPTORS, DRUG (analysis); SULFONYLUREA COMPOUNDS (chemical synthesis, pharmacodynamics).

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INFLUENCE OF DIFFERENT TECHNIQUES OF PROXIMAL GASTRIC VAGOTOMY UPON RISK OF RECURRENT DUODENAL ULCER AND GASTRIC ACID SECRETION. Kronborg O, Jorgensen PM, Holst-Christensen J *Acta Chir Scand* 143: 53-6, 1977 (Eng) DL/77AUG577

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ENGLISH ABSTRACT; FEMALE; FETAL DISEASES (etiology); GESTATIONAL AGE; HUMAN; PREGNANCY IN DIABETES (complications); PREGNANCY.

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ACETATES (blood); ANIMAL; BICARBONATES (blood); BLOOD SUGAR (metabolism); EXERCITION; GLUCONEOGENESIS; MALE; MUSCLES (metabolism); OXIDATION-REDUCTION; REST; SHEEP (blood, metabolism).

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ADULT; AGE FACTORS; DIABETES MELLITUS (complications); DIAGNOSIS, DIFFERENTIAL; ENDOMETRIOSIS (classification, etiology, occurrence, therapy); FEMALE; HUMAN; HYPERTENSION (complications); LIVER CIRRHOSIS (complications); METHODS; MIDDLE AGE; OBESITY (complications).

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ANIMAL; DIABETES MELLITUS (blood, chemically induced); FEVER (blood); MALE; RATS; STREPTOZOTOCIN; STRESS (blood); URIC ACID (blood).

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ADULT; AGED; ATHEROSCLEROSIS (etiology); AUSTRALIA; CORONARY DISEASE (etiology, familial & genetic, mortality, occurrence); DEATH, SUDDEN (occurrence); DIABETES MELLITUS (complications); FEMALE; HEART FAILURE, CONGESTIVE (diagnosis); HUMAN; HYPERTENSION (complications); MALE; MASSACHUSETTS; MENOPAUSE; MIDDLE AGE; OBESITY (complications); SMOKING (complications).

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2,3-DIPHOSPHOGLYCERATE, NUCLEOTIDE PHOSPHATE, AND ORGANIC AND INORGANIC PHOSPHATE LEVELS DURING THE EARLY PHASES OF DIABETIC KETOACIDOSIS. Kanter Y, Gerson JR, Bessman AN *Diabetes* 26: 429-33, May 77 (Eng) DL/77AUG286

ACIDOSIS, DIABETIC (blood, drug therapy); ADENOSINE TRIPHOSPHATE (blood); BLOOD; CHRONIC DISEASE; DIPHOSPHOGLYCERIC ACIDS (blood); ERYTHROCYTES (metabolism); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); INSULIN (therapeutic use); KETOSIS, DIABETIC (blood, drug therapy); NUCLEOTIDES (blood); ORGANOPHOSPHORUS COMPOUNDS (blood).

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ANIMAL; BRAIN (drug effects, metabolism); DEXAMETHASONE (pharmacodynamics); HORMONES (pharmacodynamics); HYPOPHYSECTOMY; HYPOTHALAMUS (drug effects, metabolism); INSULIN (pharmacodynamics); MALE; METHYLTYROSINES (pharmacodynamics); P-CHLOROPHENYLALANINE (pharmacodynamics); RATS; RESERPINE (pharmacodynamics); THYROIDECTOMY; THYROTROPIN-RELEASING HORMONE (metabolism); THYROXINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ACETAMINOPHEN (blood); ANILINE COMPOUNDS (analysis); BLOOD SUGAR (analysis); EVALUATION STUDIES; GLUCOSE OXIDASE (metabolism); HUMAN; KINETICS; OXYPHENBUTAZONE; PEROXIDASES (metabolism); PHENOLS; QUALITY CONTROL; STRUCTURE-ACTIVITY RELATIONSHIP.

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ADULT; AGED; BLOOD SUGAR (metabolism); C-PEPTIDE (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; INSULIN (blood, metabolism); ISLANDS OF LANGERHANS (physiopathology); KIDNEY (metabolism); LIVER CIRRHOSIS (drug, physiopathology); LIVER (metabolism); MALE; MIDDLE AGE; PEPTIDES (metabolism); UREMIA (blood).

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BASEMENT MEMBRANE (metabolism); DIABETIC NEPHROPATHIES (metabolism); ELECTROPHORESIS, POLYACRYLAMIDE GEL; GLUCOSE (metabolism); HEXOSAMINES (metabolism); HUMAN; KIDNEY GLOMERULUS (metabolism); MANNOSE (metabolism); SIALIC ACIDS (metabolism); SIALOGLYCOPROTEINS (metabolism).

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ADULT; AUTOANTIBODIES (analysis); CASE REPORT; DIABETES MELLITUS (immunology); FEMALE; HUMAN; INSULIN RESISTANCE; MALE; MIDDLE AGE; RECEPTORS, INSULIN (immunology).

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ADENOSINE DIPHOSPHATE (metabolism); ANIMAL; CATTLE; DINITROPHENOLS (pharmacodynamics); ELECTRON TRANSPORT; ENERGY TRANSFER; KINETICS; MATHEMATICS; MITOCHONDRIA, MUSCLE (drug effects, metabolism); MYOCARDIUM; OXIDATIVE PHOSPHORYLATION (drug effects); PHOSPHATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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CAN NORMAL AGING BE EXPLAINED BY THE IMMUNOLOGIC THEORY. Kent S *Geriatrics* 32: 111, 113, 116 *passim*, May 77 (Eng) DL/77AUG316

AGED; AGING; AMYLOIDOSIS (immunology); ANIMAL; AUTOIMMUNE DISEASES; CARDIOVASCULAR DISEASES (immunology); DIABETES MELLITUS (immunology); DISEASE MODELS, ANIMAL; HUMAN; IMMUNE COMPLEX DISEASE; IMMUNITY, CELLULAR; IMMUNOGLOBULINS; IMMUNOLOGIC DEFICIENCY SYNDROMES; MICE; MICE, INBRED STRAINS; NEOPLASMS (immunology); VIRUS DISEASES (immunology).

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[ISOLATION OF MRNA CODING INSULIN-LIKE PEPTIDE SYNTHESIS FROM HUMAN INSULINOMAS AND RAT PANCREAS] Iudava NA, Lebedeva MB, Makarovskaia EE, Smirnova NB, Khilko SN *Biokhimiia* 42: 175-7, Jan 77 (Rus) DL/77AUG198

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[ANTRUM RELAXATION DURING ENDOSCOPY. A COMPARISON BETWEEN BUTYLSCOPOLAMMONIUM BROMIDE (BUSCOPAN) AND GLUCAGON CHLORIDE (GLUCAGON NOVO)] Kil J, Andersen D, Weinreich J *Ugeskr Læger* 139: 1176-7, May 16 77 (Dan) DL/77AUG536

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ADULT; AGED; BUTYLSOPOLAMMONIUM BROMIDE (pharmacodynamics); CLINICAL RESEARCH; COMPARATIVE STUDY; DRUG EVALUATION; ENGLISH ABSTRACT; GASTROINTESTINAL MOTILITY (drug effects); GASTROSCOPY (methods); GLUCAGON (pharmacodynamics); HUMAN; MIDDLE AGE; PERISTALSIS (drug effects); PYLORIC ANTRUM (drug effects); SCOPOLAMINE (analogs & derivatives).

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MONOZYGOTIC TRIPLETS WITH DISCORDANCE FOR DIABETES MELLITUS AND DIABETIC MICROANGIOPATHY. Ganda OP, Soeldner JS, Gleason RE, Smith TM, Kilo C, Williamson JR *Diabetes* 26: 469-79, May 77 (Eng) DL/77AUG292

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OCHERATOXIN A AND CITRININ INDUCED NEPHROSIS IN BEAGLE DOGS. I. CLINICAL AND CLINICOPATHOLOGICAL FEATURES. Kitchen DN, Carlton WW, Tuite J *Vet Pathol* 14: 154-72, Mar 77 (Eng) DL/77AUG545  
ANIMAL; ANOREXIA (chemically induced, veterinary); ASPARTATE AMINOTRANSFERASE (urine); BENZOPYRANS (toxicity); CHLORIDES (blood); CITRININ (toxicity); DEHYDRATION (chemically induced, veterinary); DOG DISEASES (chemically induced, urine); DOGS; GLYCOSURIA (veterinary); LACTATE DEHYDROGENASE (blood, urine); MALE; NEPHROSIS (chemically induced, urine, veterinary); OCHERATOXINS (toxicity); POTASSIUM (blood); PROTEINURIA (veterinary); SODIUM (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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BIOLOGICAL ASSAY; CELL LINE; CELLS, CULTURED; HUMAN; METHODS; MONOGRAPH (mortality); PERFUSION; PITUITARY GLAND (metabolism); PITUITARY NEOPLASMS (metabolism); PROLACTIN (biosynthesis); RADIOIMMUNOASSAY (methods); RATS; SOMATOTROPIN (biosynthesis).

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PROCARCINOGEN ACTIVATION AND HORMONAL CONTROL OF CELL PROLIFERATION IN DIFFERENTIATED PRIMARY ADULT RAT LIVER CELL CULTURES. Lefert HL, Moran T, Boorstein R, Koch KS *Nature* 267: 58-61, 5 May 77 (Eng) DL/77AUG458

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THE PATHOGENESIS OF HYPERURICEMIA IN GLYCOGEN STORAGE DISEASE, TYPE I. Roe TF, Kogut MD *Pediatr Res* 11: 664-9, May 77 (Eng) DL/77AUG481

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TRANSPORT OF SUGARS IN CHICK-EMBRYO FIBROBLASTS. EVIDENCE FOR A LOW-AFFINITY SYSTEM AND A HIGH-AFFINITY SYSTEM FOR GLUCOSE TRANSPORT. Christopher CW, Kohlbacher MS, Amos H *Biochem J* 158: 439-50, 15 Aug 76 (Eng) \*DL/77AUG171

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DISTRIBUTION OF ADENINE NUCLEOTIDES IN THE PERFUSED RAT HEART. Kohn MC, Achs MJ, Garfinkel D *Am J Physiol* 232: r158-63, May 77 (Eng) DL/77AUG610  
ACTIN (metabolism); ADENINE NUCLEOTIDES (metabolism); ANIMAL; ANOXIA (metabolism); COMPUTERS; CORONARY DISEASE (metabolism); CREATINE (metabolism); CYTOSOL (metabolism); GLUCOSE (metabolism);

HYDROGEN-ION CONCENTRATION (physiology); INSULIN (metabolism); MAGNESIUM (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MODELS, BIOLOGICAL; MYOCARDIUM (metabolism); PERFUSION; PHOSPHOCREATINE (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[GASTROINTESTINAL HORMONES AND INSULIN] Susaki H, Ebitani I, Tominaga M, Hara M, Koike K *Jpn J Clin Med* 35: 255-63, 10 Feb 77 (Jpn) DL/77AUG400

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ADOLESCENCE; CELIAC DISEASE (complications, immunology); CHILD; CHILD, PRESCHOOL; CHROMOSOME MAPPING; DIABETES MELLITUS, JUVENILE (complications, etiology, familial & genetic, immunology); FINLAND; GENES; GENOTYPE; HISTOCOMPATIBILITY ANTIGENS (analysis); HISTOCOMPATIBILITY TESTING; HLA-A (analysis); HUMAN; REMISSION.

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[EFFECT OF ETHANOL ON GLYCIDE, LIPID, AND PROTEIN COMPONENTS IN THE LIVER AND BLOOD OF RATS (AUTHORS TRANSL.)] Brixova E, Zajacova O, Dzurikova V, Kolesar P *Bratisl Lek Listy* 65: 614-9, 6 Jun 76 (Slo) \*DL/77AUG9

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[COMPARATIVE CLINICO-BIOCHEMICAL CHARACTERISTICS OF EXPERIMENTAL INTESTINAL SHUNTING] Komarov IA, Mokhov EM, Krapivin AA *Eksp Khir Anesteziol* 31-4, May-Jun 76 (Rus) \*DL/77AUG23

ADAPTATION, PHYSIOLOGICAL; ANIMAL; BLOOD CELL COUNT; BLOOD SUGAR (analysis); BODY WEIGHT; CALCIUM (blood); CHLORIDES (blood); COMPARATIVE STUDY; DOGS; ENGLISH ABSTRACT; FEMALE; INTESTINE, SMALL (surgery); MALE; PHOSPHOLIPIDS (blood); PHOSPHORUS (blood).

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[BIOSYNTHESIS OF INSULIN. THE FERDINAND-BERTRAM-AWARD LECTURE (AUTHORS TRANSL.)] Lanzinger-Rossnagel G, Christian W, Kommerell B *Dtsch Med Wochenschr* 102: 725-31, 13 May 77 (Ger) DL/77AUG251

ANTIBODIES AGAINST THE HEPATITIS B SURFACE ANTIGEN IN DIABETICS. Hasslacher C, Thamer G, Wahl P, Kommerell B *Diabet Metab* 3: 19-21, Mar 77 (Eng) DL/77AUG275

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[THE SECRETORY FUNCTION OF THE PANCREAS AND THE AGEING PROGRESS (AUTHORS TRANSL)] Korkuschko OW, Terschtschenko WP *ZFA [Dresden]* 31: 133-50, 1976 (Eng) \*DL/77AUG131

ADULT; AGED; AGING; AMYLASE (metabolism); BICARBONATES (analysis); BLOOD SUGAR (analysis); CHOLECYSTOKININ (pharmacodynamics); ENGLISH ABSTRACT; FEMALE; HUMAN; HYDROCHLORIC ACID (pharmacodynamics); IODINE (urine); IODIZED OILS (pharmacodynamics); LIPASE (metabolism); MALE; MIDDLE AGE; PANCREAS (drug effects, secretion); PANCREATIC JUICE (analysis, enzymology); SECRETIN (pharmacodynamics); STARCH (pharmacodynamics); TRYPSIN (metabolism).

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GENETICS IN THE STUDY OF CARBOHYDRATE TRANSPORT BY BACTERIA. SIXTH GRIFFITH MEMORIAL LECTURE. Kornberg HL *J Gen Microbiol* 96: 1-16, Sep 76 (Eng) \*DL/77AUG84

BACTERIA (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CARBOHYDRATES (metabolism); CHROMOSOME MAPPING; CONJUGATION, GENETIC; ESCHERICHIA COLI (enzymology, metabolism); FRUCTOSE (metabolism); GALACTOSE (metabolism); GENETICS, MICROBIAL; GLUCOSE (metabolism); LINKAGE (GENETICS); RECOMBINATION, GENETIC; STREPTOCOCCUS PNEUMONIAE (metabolism); TRANSDUCTION, GENETIC; TRANSFORMATION, GENETIC.

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[MECHANISM OF THE EFFECT OF THE ALPHA-ADRENOBLOCKADER PHENTOLAMINE ON GASTRIC SECRETION IN DOGS] Korshak AL *Farmakol Toksikol* 39: 678-80, Nov-Dec 76 (Rus) DL/77AUG267

ANIMAL; DOGS; GASTRIC JUICE (secretion); GASTRIC MUCOSA (secretion); HISTAMINE ANTAGONISTS; INSULIN (antagonists & inhibitors); PENTAGASTRIN (antagonists & inhibitors); PEPSIN (secretion); PHENTOLAMINE (pharmacodynamics).

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ADIPOSE TISSUE (drug effects, metabolism); AMINO ACIDS (analysis); ANIMAL; ELECTROPHORESIS, DISC; FIBRINOLYSIS; GLUCOSE (metabolism); HUMAN; MONOGRAPH (mortality); PEPTIDE FRAGMENTS (analysis); RATS; SOMATOTROPIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADIPOSE TISSUE (metabolism); ANIMAL; CHOLESTEROL ACYLTRANSFERASE (metabolism); CHOLESTEROL ESTERS (metabolism); CHOLESTEROL (blood, metabolism); CHYLOMICRONS (metabolism); KINETICS; LIPOPROTEINS (blood); LYMPH (metabolism); MALE; RATS; SUBCELLULAR FRACTIONS (metabolism).

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[PERIODIC EEG DISCHARGES OF STEREOTYPED MORPHOLOGY] Kowalski J, Karbowski K *Neurol Neurochir Pol* 11: 179-87, Mar-Apr 77 (Pol) DL/77AUG463

ADOLESCENCE; ADRENOGENITAL SYNDROME (complications); ADULT; CASE REPORT; CEREBRAL ANOXIA (complications); CHILD; COMA (diagnosis, etiology); DELTA RHYTHM; ELECTROENCEPHALOGRAPHY; ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIA (complications); LUPUS ERYTHEMATOSUS, SYSTEMIC (complications); MALE; PROGNOSIS; REYES SYNDROME (complications); THETA RHYTHM.

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PRIMARY ADRENOCORTICAL INSUFFICIENCY (ADDISONS DISEASE). Kozak GP *Am Fam Physician* 15: 124-35, May 77 (Eng) DL/77AUG596

ADDISONS DISEASE (diagnosis, drug therapy); BODY WEIGHT; CORTICOTROPIN (blood); DIAGNOSIS, DIFFERENTIAL; FLUDROCORTISONE (therapeutic use); HUMAN; HYDROCORTISONE (therapeutic use); HYPOGLYCEMIA (etiology); HYPOTENSION (etiology); MENTAL DISORDERS (etiology); MUSCULAR DISEASES (etiology); PATIENTS (education); PIGMENTATION DISORDERS (etiology); SMELL; TASTE; 17-HYDROXYCORTICOSTEROIDS (urine).

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[LOCALIZATION AND CONTENT OF ALKALINE AND ACID PHOSPHATASES IN THE COCHLEA IN EXPERIMENTAL DIABETES] Kozlov MJ, Onegovova RF, Sokolovezovova JM *Cesk Otolaryngol* 25: 337-42, Dec 76 (Cze) DL/77AUG221

ACID PHOSPHATASE (metabolism); ALKALINE PHOSPHATASE (metabolism); ALLOXAN DIABETES (enzymology); ANIMAL; COCHLEA (enzymology); ENGLISH ABSTRACT; RATS.

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INSULIN-LIKE HYPOGLYCEMIC AND IMMUNOLOGICAL ACTIVITIES IN HONEYBEE ROYAL JELLY. Kramer KJ, Tager HS, Childs CN, Speirs RD *J Insect Physiol* 23: 293-5, 1977 (Eng) DL/77AUG361

ANIMAL; BEES (analysis, physiology); BIOLOGICAL ASSAY; BLOOD SUGAR (metabolism); CROSS REACTIONS, INSECT HORMONES (pharmacodynamics); INSULIN (immunology); PEPTIDES (immunology, isolation & purification, pharmacodynamics).

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INFLUENCE OF DIFFERENT TECHNIQUES OF PROXIMAL GASTRIC VAGOTOMY UPON RISK OF RECURRENT DUODENAL ULCER AND GASTRIC ACID SECRETION. Kronborg O, Jorgensen PM, Holst-Christensen J *Acta Chir Scand* 143: 53-6, 1977 (Eng) DL/77AUG577

DUODENAL ULCER (physiopathology, surgery); ESOPHAGUS (surgery); FEMALE; FOLLOW-UP STUDIES; GASTRIC JUICE (secretion); HISTAMINE (diagnostic use); HUMAN; INSULIN (diagnostic use); MALE; RECURRENCE; VAGOTOMY (methods).

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AGED; CHOLESTEROL (blood); CLINICAL RESEARCH; CLOFIBRATE (adverse effects, therapeutic use); COMPARATIVE STUDY; DIABETES MELLITUS (complications); FEMALE; GLYCOLATES (therapeutic use); HALOFENATE (adverse effects, therapeutic use); HUMAN; HYPERLIPIDEMIA (blood, drug therapy, etiology); MALE; MIDDLE AGE; TRIGLYCERIDES (blood); URIC ACID (blood).

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SERUM GLUCOSE DETERMINATION WITH DEXTROSTIX AND THE EYETONE REFLECTANCE METER. Hornes P, Kuhl C *Acta Med Scand* 200: 297-9, 1976 (Eng) \*DL/77AUG142

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ISLET CELL HYPERPLASIA LOCALIZED BY PANCREATIC VEIN CATHETERIZATION AND INSULIN RADIOIMMUNOASSAY. Ingemansson S, Kuhl C, Larsson LI, Lunderquist A, Nobin A *Am J Surg* 133: 643-5, May 77 (Eng) DL/77AUG614

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[AMINO ACID METABOLISM IN HEALTHY SUBJECTS AFTER GLUCAGON ADMINISTRATION (AUTHORS TRANSL)] Andel M, Brodan V, Brodanova M, Kuhn E *Cesk Gastroenterol Vyz* 31: 14-8, Jan 77 (Cze) DL/77AUG218

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ANIMAL; CELL DIFFERENTIATION (drug effects); CYTOPLASMIC GRANULES (drug effects, metabolism, ultrastructure); FEMALE; HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); MALE; MICE; SEX FACTORS; STANOLONE (pharmacodynamics); SUBMANDIBULAR GLAND (anatomy & histology, drug effects, metabolism); THYROXINE (pharmacodynamics).

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[COMBINATION OF DIABETES MELLITUS, UROLITHIASIS AND CANCER OF THE URINARY BLADDER] Kurii MF, Bondar IP *Vrach Delo* 88-9, Feb 77 (Rus) DL/77AUG558

BLADDER NEOPLASMS (complications, surgery); CASE REPORT; DIABETES MELLITUS (complications); FEMALE; HUMAN; KIDNEY CALCULI (complications); MIDDLE AGE.

Kurocka J

[GLUCAGON TEST IN CIRRHOSIS OF THE LIVER (AUTHORS TRANSL)] Kurocka J, Spanar E, Levick A, Zahradny V, Holan J *Cesk Gastroenterol Fyz* 31: 36-41, Jan 77 (Slo) DL/77AUG219

ANTIGENS (analysts); BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; GLUCAGON (diagnostic use); HUMAN; INSULIN (blood); LIVER CIRRHOSIS (blood).

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EFFECTS OF EXTRACELLULAR VOLUME EXPANSION ON THE TUBULAR REABSORPTION OF GLUCOSE. A MICROINJECTION STUDY. Boonjaer S, Laski ME, Kurtzman NA *J Pharmacol Arch* 366: 67-71, 15 Oct 76 (Eng) \*DL/77AUG111

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[COMPARATIVE ASSESSMENT OF TRUNCAL AND SELECTIVE VAGOTOMY COMBINED WITH GASTRIC DRAINAGE IN THE TREATMENT OF DUODENAL ULCER] Kurygin AA, Zhuk AM *Vestn Khir* 118: 7-11, Jan 77 (Rus) DL/77AUG544

CHOLELITHIASIS (etiology); COMPARATIVE STUDY; DIARRHEA (etiology); DRAINAGE; DUODENAL ULCER (surgery); ENGLISH ABSTRACT; FEMALE; GASTRIC MUCOSA (secretion); HUMAN; INSULIN (diagnostic use); MALE; POSTOPERATIVE COMPLICATIONS (poisoning); RECURRENCE; SEX FACTORS; VAGOTOMY (adverse effects, methods).

Kuznetsova NP

[CASES OF SPONTANEOUS HYPOGLYCEMIA IN PATIENTS WITH DIABETES MELLITUS] Gruzina EA, Vasileva RD, Kuznetsova NP, Pohrezhniuk MP *Vrach Delo* 15-8, Apr 77 (Rus) DL/77AUG560

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ANIMAL; C-PEPTIDE (blood); DIABETES MELLITUS (blood); HUMAN; PANCREATIC NEOPLASMS (diagnosis); PEPTIDES (blood); PROINSULIN (blood); RADIOIMMUNOASSAY; RATS; REVIEW.

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MANAGEMENT OF PROLONGED HYPOGLYCAEMIA IN BECKWITH'S SYNDROME. Moncrieff MW, Lacey KA, Malleson PN *Postgrad Med J* 53: 159-61, Mar 77 (Eng) DL/77AUG484

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[ISOLATION AND CHARACTERISTICS OF AN ACHOLEPLASMA LAIDLAWII MUTANT WITH DEFECTIVE CARBOHYDRATE TRANSPORT] Ladygina VG, Burd GI, Tarshis MA *Dokl Akad Nauk SSSR* 229: 738-40, 1976 (Eng) \*DL/77AUG22

ACHOLEPLASMA LAIDLAWII (metabolism); BIOLOGICAL TRANSPORT; GLUCOSE (metabolism); MUTATION.

Lageder H

[CHANGES IN GLUCOSE TOLERANCE, SERUM INSULIN AND BLOOD LIPIDS DURING CONTRACEPTIVE MEDICATION (OESTROGEN-GESTAGEN) IN METABOLICALLY-HEALTHY WOMEN (AUTHORS TRANSL)] Lageder H, Isrigler K, Schneider WH, Spona J, Bauer P, Wohlzogen FX *Wien Klin*

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ADULT; BLOOD SUGAR (metabolism); CONTRACEPTIVES, ORAL (administration & dosage); CONTRACEPTIVES, ORAL, COMBINED (administration & dosage); ENGLISH ABSTRACT; ETHINYL ESTRADIOL (administration & dosage); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); LIPIDS (blood); NORGESTREL (administration & dosage); TRIGLYCERIDES (blood).

Laihes BA

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CELL SURVIVAL (drug effects); CELLS, CULTURED; CULTURE MEDIA; DEXAMETHASONE (pharmacodynamics); INSULIN (pharmacodynamics); LIVER (cytology); RATS.

Lama R

[DIABETES INSIPIDUS IN INFANCY. I. REVIEW (AUTHORS TRANSL)] de Yturriaga R, Barrio R, Nieto JA, Lama R, Lledo G, Gracia Y *An Esp Pediatr* 9: 612-25, Nov-Dec 76 (Spa) DL/77AUG618

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ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; COMPARATIVE STUDY; GALACTOSE (metabolism); GLUCOSE (metabolism); INTESTINAL ABSORPTION; INTESTINE, SMALL (metabolism); OXYGEN CONSUMPTION; TURTLES (metabolism).

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ADENOMA (blood); ADULT; ANIMAL; BLOOD SUGAR (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (secretion); MALE; MIDDLE AGE; PITUITARY NEOPLASMS (blood); PROLACTIN (blood, pharmacodynamics); RATS; 2-BROMOERGOCRYPTINE (pharmacodynamics).

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INDUCTION OF LIPOGENESIS DURING DIFFERENTIATION IN A PREADIPOCYTE CELL LINE. Mackall JC, Student AK, Polakis SE, Lane MD *J Biol Chem* 251: 6462-4, 25 Oct 76 (Eng) \*DL/77AUG53

LIPOGENESIS AND THE SYNTHESIS AND SECRETION OF VERY LOW DENSITY LIPOPROTEIN BY AVIAN LIVER CELLS IN NONPROLIFERATING MONOLAYER CULTURE. HORMONAL EFFECTS. Tarlow DM, Watkins PA, Reed RE, Miller RS, Zwergel EE, Lane MD *J Cell Biol* 73: 332-53, May 77 (Eng) DL/77AUG345

MECHANISM FOR ACUTE CONTROL OF FATTY ACID SYNTHESIS BY GLUCAGON AND 3:5-CYCLOC AMP IN THE LIVER CELL. Watkins PA, Tarlow DM, Lane MD *Proc Natl Acad Sci USA* 74: 1497-501, Apr 77 (Eng) DL/77AUG489



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ANIMAL; AORTA (metabolism); ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (chemically induced, metabolism); CHOLESTEROL ESTERS (metabolism); CHOLESTEROL (blood); CHOLESTEROL, DIETARY; COLLAGEN (biosynthesis, metabolism); HYDROXYLASES (metabolism); HYDROXYPROLINE (metabolism); MALE; RABBITS; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )

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[BIOSYNTHESIS OF INSULIN. THE FERDINAND-BERTRAM-AWARD LECTURE (AUTHORS TRANSL.) Lanzinger-Rossmagel G, Christian W, Kommerell B *Dtsch Med Wochenschr* 102: 725-31, 13 May 77 (Ger) DL/77AUG251

AMINO ACID SEQUENCE; HUMAN; INSULIN (biosynthesis, secretion); PROINSULIN (biosynthesis).

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ISLET CELL HYPERPLASIA LOCALIZED BY PANCREATIC VEIN CATHETERIZATION AND INSULIN RADIOIMMUNOASSAY. Ingemansson S, Kuhl C, Larsson LI, Lunderquist A, Nobin A *Am J Surg* 133: 643-5, May 77 (Eng) DL/77AUG614

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EFFECTS OF EXTRACELLULAR VOLUME EXPANSION ON THE TUBULAR REABSORPTION OF GLUCOSE. A MICROINJECTION STUDY. Boonjareem S, Laski ME, Kurtzman NA *Pfluegers Arch* 366: 67-71, 15 Oct 76 (Eng) \*DL/77AUG111

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INSULIN KINETICS AFTER PORTAL AND PERIPHERAL INJECTION OF LABELLED INSULIN. PROCEDURE TO BE USED WHEN NO INDEPENDENT MEASURE OF LIVER PLASMA FLOW IS AVAILABLE. Lassen NA, Per W *J Nucl Biol Med* 20: 180-2, Oct - Dec 76 (Eng) DL/77AUG373

INJECTIONS, INTRAVENOUS; INSULIN (administration & dosage, metabolism); KINETICS; PORTAL VEIN.

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ADRENALECTOMY; ANESTHESIA; ANIMAL; HYDROXYDOPAMINE; HYPERGLYCEMIA (etiology); LIVER (innervation); RATS; SURGERY, OPERATIVE; SYMPATHECTOMY.

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[ISOLATION OF MRNA CODING INSULIN-LIKE PEPTIDE SYNTHESIS FROM HUMAN INSULINOMAS AND RAT PANCREAS] Iudava NA, Lebedeva MB, Makarovskaia EE, Smirnova NB, Khilko SN *Biokhimiia* 42: 175-7, Jan 77 (Rus) DL/77AUG198

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EVIDENCE FOR A ROLE OF ADENOSINE 3:5-MONOPHOSPHATE IN GROWTH HORMONE-DEPENDENT SERUM SULFATION FACTOR (SOMATOMEDIN) ACTION ON CARTILAGE. PP. 202-15. Lebovitz HE, Drezner MK, Neelon FA In: Pecile A, Muller EE, ed. *Growth hormone and related peptides. Amsterdam, Excerpta Medica*, 1976. W3 EX89 no.381 1975. (Eng) \*DL/77AUG70

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives, metabolism, pharmacodynamics); ADENOSINE (pharmacodynamics); AMINOISOBUTYRIC ACID (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CARTILAGE (drug effects, metabolism); CHICK EMBRYO; COLLAGEN (biosynthesis); MONOGRAPH (mortality); PROLINE (metabolism); PROTEOGLYCANS (biosynthesis); SOMATOMEDIN (blood, pharmacodynamics); SOMATOTROPIN (pharmacodynamics); THEOPHYLLINE (pharmacodynamics); TRANSCRIPTION, GENETIC (drug effects); TRANSLATION, GENETIC (drug effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )

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ADULT; CHOLESTEROL (blood); CORONARY DISEASE (occurrence); DIABETES MELLITUS (occurrence); EGYPT; HUMAN; HYPERTENSION (occurrence); LIPIDS (blood); MALE; MIDDLE AGE; RESIDENCE CHARACTERISTICS.

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PROCARCINOGEN ACTIVATION AND HORMONAL CONTROL OF CELL PROLIFERATION IN DIFFERENTIATED PRIMARY ADULT RAT LIVER CELL CULTURES. Leffert HL, Moran T, Boorstein R, Koch KS *Nature* 267: 58-61, 3 May 77 (Eng) DL/77AUG458

ACETYLAMINOFLUORENE (metabolism); ALBUMINS (physiology); ARGinine (pharmacodynamics); CELL DIVISION (drug effects); CELLS, CULTURED (metabolism, physiology); FLUORENES (metabolism); HYDROCORTISONE (pharmacodynamics); INOSINE (pharmacodynamics); INSULIN (pharmacodynamics); LIVER (cytology, metabolism, physiology); ORNITHINE (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. )

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[SUBSTITUTION OF LIPASE IN CHRONIC PANCREATITIS] Sailer D, Lehmann R, Berg G *Med Welt* 28: 497-500, 11 Mar 77 (Ger) DL/77AUG441

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BACTERIA (physiology); BLOOD COAGULATION TESTS (methods); BLOOD PLATELETS (physiology); CALORIMETRY (instrumentation, methods); CHEMISTRY, ANALYTICAL (methods); CHEMISTRY, CLINICAL (methods); ENZYME TESTS (methods); ENZYMES (metabolism); ERYTHROCYTES (physiology); FECEES (analysis); IN VITRO; INSULIN (analysis); LEUKOCYTES (physiology); MICROCHEMISTRY.

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ANIMAL, ANOXIA (physiopathology); CALCIUM (pharmacodynamics); DRUG INTERACTIONS; EPINEPHRINE (pharmacodynamics); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (biosynthesis); HEART (drug effects); IN VITRO; MAGNESIUM (pharmacodynamics); MALE; MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (enzymology, metabolism); PHOSPHATES (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ]

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ADULT; CASE REPORT; DENIAL (PSYCHOLOGY) (drug effects); DEPRESSION (therapy); DIABETES MELLITUS, JUVENILE (therapy); FEMALE; HUMAN; PARENT-CHILD RELATIONS; PSYCHOTHERAPY.

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ANIMAL, BUFFERS; CYTOSOL (metabolism); ESTRADIOL (metabolism); FEMALE; GONADOTROPINS, CHORIONIC (metabolism); KINETICS; MAMMAE (metabolism); MICROSOMES (metabolism); OPTICAL ROTATION; PROLACTIN (metabolism); RABBITS; RECEPTORS, ESTROGEN (metabolism); RECEPTORS, HORMONE (metabolism); SPECTROMETRY.

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HUMAN GROWTH HORMONE: A FAMILY OF PROTEINS. PP. 64-74. Lewis UJ, Singh RN, Peterson SM, Vanderlaan WP. In: *Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) \*DL/77AUG71* ANIMAL, BIOLOGICAL ASSAY; CROP, AVIAN (drug effects); DISULFIDES (analysis); ELECTROPHORESIS, DISC; ELECTROPHORESIS, POLYACRYLAMIDE GEL; HUMAN; MOLECULAR WEIGHT; MONOGRAPH (mortality); OLIGOPEPTIDES (pharmacodynamics); PIGEONS; PROTEIN BINDING; PROTEIN CONFORMATION; SOMATOTROPIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ]

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AMINO ACID SEQUENCE; ANIMAL; BIOLOGICAL ASSAY; CIRCULAR DICHROISM; DISULFIDES; DITHIOITREITOL; ENZYME ACTIVATION; FIBRINOLYSIS (pharmacodynamics); HUMAN; MALE; MONOGRAPH (mortality); ORNITHINE DECARBOXYLASE (metabolism); PEPTIDE FRAGMENTS; PROTEIN CONFORMATION; RATS; SOMATOTROPIN (pharmacodynamics); SPECTROPHOTOMETRY, ULTRAVIOLET; TIBIA (drug effects).

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EFFECT OF CHRONIC ETHANOL CONSUMPTION AND ACETALDEHYDE ON PARTIAL

REACTIONS OF OXIDATIVE PHOSPHORYLATION AND CO<sub>2</sub> PRODUCTION FROM CITRIC ACID CYCLE INTERMEDIATES. Cederbaum AI, Lieber CS, Rubin E. *Arch Biochem Biophys* 176: 525-38, Oct 76 (Eng) \*DL/77AUG155

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ALCOHOLISM (physiopathology); EPINEPHRINE (diagnostic use); HUMAN; INSULIN (diagnostic use); NICOTINIC ACIDS (diagnostic use); PYROGENS (diagnostic use); SULFUR (diagnostic use).

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ANIMAL; BINDING, COMPETITIVE; CELL

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ADOLESCENCE; ADULT; ARGININE

(diagnostic use); CHILD; CYSTIC FIBROSIS (complications, physiopathology); FEMALE; GLUCAGON (secretion); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (secretion); ISLANDS OF LANGERHANS (physiopathology); MALE; PREDIABETIC STATE (complications); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ]

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[CHANGE IN THE ACTIVITY AND LACTATE DEHYDROGENASE ISOENZYME SPECTRUM IN RAT LUNGS, LIVER AND KIDNEY CORTEX UNDER THE EFFECT OF HYDROCORTISONE, INSULIN AND HYPOXIA] Postupaev VV, Ananeva GV, Litonian ZM. *Vopr Med Khim* 22: 59-63, Jan-Feb 76 (Rus) DL/77AUG554

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[DIABETES INSIPIDUS IN INFANCY. I. REVIEW (AUTHORS TRANSL.) de Yturriaga R, Barrio R, Nieto JA, Lama R, Lledo G, Gracia Y *An Esp Pediatr* 9: 612-25, Nov-Dec 76 (Spa) DL/77AUG618

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COMPARATIVE EFFECTS OF PHENFORMIN, METFORMIN AND GLIBENCLAMIDE ON METABOLIC RHYTHMS IN MATURITY-ONSET DIABETICS. Nattrass M, Todd PG, Hinks L, Lloyd B, Alberti KG *Diabetologia* 13: 145-52, Apr 77 (Eng) DL/77AUG306

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AGED; ANKLE (physiopathology); ATHEROSCLEROSIS (surgery); BLOOD PRESSURE; DIABETIC ANGIOPATHIES (surgery); FEMORAL VEIN (surgery); GANGRENE (surgery); HUMAN; ISCHEMIA (surgery); LEG (blood supply, surgery); PAIN (surgery); POPLITEAL VEIN (surgery); SAPHENOUS VEIN (pathology, transplantation); TRANSPLANTATION, AUTOLOGOUS; ULCER (surgery).

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AGE FACTORS; AGED; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERLIPIDEMIA (complications); HYPERTENSION (complications); ITALY; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (etiology, occurrence); SEX FACTORS; SMOKING (complications).

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CORTICOTROPIC AND MELANOTROPIC FUNCTIONS IN CONGENITAL ADRENAL HYPERPLASIA. Lombardi G, Oliver Ch, Lupoli G, Minozzi M *Acta Endocrinol (Kbh)* 85: 118-25, May 77 (Eng) DL/77AUG578  
ADOLESCENCE; ADRENAL GLAND HYPERFUNCTION (blood, congenital); ADULT; BLOOD SUGAR; CHILD; CHILD, PRESCHOOL; CORTICOTROPIN (blood); FEMALE; HUMAN; INSULIN (diagnostic use); MALE; METYRAPONE (diagnostic use); MSH RELEASE INHIBITING HORMONE (diagnostic use); MSH (blood).

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APPLICATIONS AND HAZARDS OF INTRAVENOUS HYPERALIMENTATION. Dudrick SJ, Long JM 3d *Annu Rev Med* 28: 517-28, 1977 (Eng) [20 ref.] DL/77AUG629

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IMPORTANCE OF ABNORMAL GLUCOSE TOLERANCE (HYPOGLYCAEMIA AND HYPERGLYCAEMIA) IN THE AETIOLOGY OF PRE-ECLAMPSIA. Long PA, Abell DA, Beischer NA *Lancet* 1: 923-5, 30 Apr 77 (Eng) DL/77AUG429

BLOOD SUGAR (analysis); COMPARATIVE STUDY; FEMALE; FETAL DEATH (etiology); GLUCOSE TOLERANCE TEST; HUMAN; HYPERGLYCAEMIA (complications, diagnosis); HYPOGLYCAEMIA (complications, diagnosis); PARITY; PLACENTA DISORDERS (complications, etiology); PRE-ECLAMPSIA (blood, etiology); PREGNANCY IN DIABETES (blood, complications); PREGNANCY TOXEMIAS (etiology); PREGNANCY TRIMESTER, THIRD; PREGNANCY; PROTEINURIA (complications).

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HYPOGLYCAEMIA OF INFANCY AND NESIDIOBLASTOSIS. STUDIES WITH SOMATOSTATIN. Hirsch HJ, Loo S, Evans N, Criegler JF, Filler RM, Gabbay KH *N Engl J Med* 296: 1323-6, 9 Jun 77 (Eng) DL/77AUG455

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[HISTOLOGICAL AND IMMUNOHISTOCHEMICAL INVESTIGATIONS ON THE TRANSPLANTED ISOLATED ISLETS OF LANGERHANS IN DIABETIC RATS (AUTHORS TRANSL.) Lorenz D, Estel S, Gehrandt F, Dorn A, Petermann J, Becker R *Acta Histochem (Jena)* 58: 85-99, 1977 (Ger) DL/77AUG580

ANIMAL; BLOOD SUGAR (analysis); DIABETES MELLITUS (pathology); ENGLISH ABSTRACT; FLUORESCENT ANTIBODY TECHNIQUE; GLUCAGON (analysis); INSULIN (analysis); ISLANDS OF LANGERHANS (analysis, pathology, transplantation); LIVER; PERITONEUM; RATS; RATS, INBRED STRAINS; TRANSPLANTATION, ISOGENEIC.

## Loubatieres A

[REDUCTION BY SODIUM DICHOROACETATE AND BY INSULIN OF THE SEVERE HYPERLACTAEMIA FOLLOWING PHENFORMIN ADMINISTRATION IN ANESTHETIZED OR AWAKE DOGS] Loubatieres A, Ribes G, Valette G *C R Acad Sci [D] (Paris)* 284: 325-7, 24 Jun 77 (Fre) DL/77AUG226

ACETATES (pharmacodynamics); ANIMAL; DOGS; ENGLISH ABSTRACT; HYDROGEN-ION CONCENTRATION (physiology); INSULIN (pharmacodynamics); LACTOSE (blood); PENTOBARBITAL (pharmacodynamics); PHENFORMIN (antagonists & inhibitors, toxicity).

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ACINAR ADENOMAS OF THE PANCREAS IN MRC-WISTAR RATS. Love L, Pelfrene A, Garcia H *J Comp Pathol* 87: 307-10, Apr 77 (Eng) DL/77AUG354

ADENOMA (pathology, veterinary); ANIMAL; FEMALE; ISLANDS OF LANGERHANS (pathology); MALE; MITOSIS; PANCREAS (pathology); PANCREATIC NEOPLASMS (pathology, veterinary); RATS; RODENT DISEASES (pathology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF HUMAN UMBILICAL ARTERY. Clyman RI, Manganiello VC, Lovell-Smith CJ, Vaughan M *Am J Physiol* 231: 1074-81, Oct 76 (Eng) \*DL/77AUG151

SOLUBILIZATION AND CHARACTERIZATION OF HORMONE-RESPONSIVE PHOSPHODIESTERASE ACTIVITY OF RAT FAT CELLS. Lovell-Smith CJ, Manganiello VC, Vaughan M *Biochim Biophys Acta* 497: 447-58, 27 Apr 77 (Eng) DL/77AUG196

ADIPOSE TISSUE (enzymology); ANIMAL; CORTICOTROPIN (pharmacodynamics); DITHIOTHREITOL (pharmacodynamics); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (cytology); INSULIN (pharmacodynamics); MAGNESIUM (pharmacodynamics); MALE; PHOSPHODIESTERASES (isolation & purification, metabolism); RATS; SOLUBILITY; 3,5-CYCLOC AMP PHOSPHODIESTERASE (isolation & purification, metabolism).

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EFFECT OF ETHANOL AND LACTATE ON THE BASAL AND GLUCAGON-ACTIVATED CYCLIC AMP FORMATION IN ISOLATED HEPATOCYTES. Zederman R, Low H, Hall K *FEBS Lett* 75: 291-4, 15 Mar 77 (Eng) DL/77AUG270

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DIABETICS IN SCHOOL. KNOWLEDGE AND ATTITUDES OF SCHOOL STAFF IN RELATION TO JUVENILE DIABETICS. Ludvigsson J *Scand J Soc Med* 5: 21-30, 1977 (Eng) DL/77AUG517

ATTITUDE TO HEALTH; CHILD; DIABETES MELLITUS, JUVENILE; HUMAN; QUESTIONNAIRES; SCHOOL HEALTH; SWEDEN.

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ADOLESCENCE; ADULT; CHILD; CHROMOSOME MAPPING; DIABETES MELLITUS, JUVENILE (drug therapy, etiology, familial & genetic); FEMALE; GENES; GLUCOSE TOLERANCE TEST; HISTOCOMPATIBILITY ANTIGENS (analysis); HISTOCOMPATIBILITY TESTING; HL-A (analysis); HUMAN; INSULIN (therapeutic use); MALE.

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FURTHER STUDIES ON THE MODE OF ACTION OF ISOPRENALINE ON GASTRIC SECRETION IN THE CONSCIOUS RAT. Lun-



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ANIMAL; BLOOD SUGAR (metabolism); DEOXYGLUCOSE (pharmacodynamics); DRUG INTERACTIONS; EATING; FEMALE; GASTRIC MUCOSA (secretion); GASTRIN (blood); HISTAMINE (metabolism, pharmacodynamics); ISOPROTERENOL (pharmacodynamics); METHACHOLINE COMPOUNDS (pharmacodynamics); RATS; TIME FACTORS.

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ISLET CELL HYPERPLASIA LOCALIZED BY PANCREATIC VEIN CATHETERIZATION AND INSULIN RADIOIMMUNOASSAY. Ingemansson S, Kuhl C, Larsson LI, Lunderquist A, Nobin A *Am J Surg* 133: 643-5, May 77 (Eng) DL/77AUG614

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PHYSICAL TRAINING IN MAN. SKELETAL MUSCLE METABOLISM IN RELATION TO MUSCLE MORPHOLOGY AND RUNNING ABILITY. Bylund AC, Bjuro T, Cederblad G, Holm J, Lundholm K, Sjostrom M, Anquist KA, Schersten T *Eur J Appl Physiol* 36: 151-69, 15 Mar 77 (Eng) [54 ref.] DL/77AUG261

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ACCUMULATION OF DOPAMINE IN MOUSE PANCREATIC B-CELLS FOLLOWING INJECTION OF L-DOPA. LOCALIZATION TO SECRETORY GRANULES AND INHIBITION OF INSULIN SECRETION. Ericson LE, Hakansson R, Lundquist I *Diabetologia* 13: 117-24, Apr 77 (Eng) DL/77AUG301

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CORTICOTROPIC AND MELANOTROPIC FUNCTIONS IN CONGENITAL ADRENAL HYPERPLASIA. Lombardi G, Oliver Ch, Lupoli G, Minozzi M *Acta Endocrinol (Kbh)* 85: 118-25, May 77 (Eng) DL/77AUG578

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[HYPERTRIGLYCERIDEMIA INDUCED BY CARBOHYDRATES IN PRIMARY HYPERLIPOPROTEINEMIA] Lussier-Cacan S, Beaujean R, Gattereau A, Divignon J *Union Med Can* 106: 474-84, Apr 77 (Fre) DL/77AUG540  
ADOLESCENCE; ADULT; BLOOD SUGAR (analysis); DIETARY CARBOHYDRATES; ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPERLIPEMIA, ESSENTIAL FAMILIAL (blood); INSULIN (blood); LIPIDS (blood); LIPOPROTEINS (blood); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

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EFFECT OF BIGUANIDE TREATMENT IN OBESE CHILDREN. Lutjens A, Smit JL *Helv Paediatr Acta* 31: 473-80, Apr 77 (Eng) DL/77AUG331  
ADOLESCENCE; BLOOD SUGAR (analysis); CHILD; FASTING; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); METFORMIN (therapeutic use); OBESITY (drug therapy).

## Lutz W

[NUTRITION AND RISK FACTORS] Lutz W *Wien Med Wochenschr* 127: 222-5, 15 Apr 77 (Ger) DL/77AUG562  
ADULT; ARTERIOSCLEROSIS (prevention & control); DIABETES MELLITUS (prevention & control); DIET, ATEROGENIC, DIETARY CARBOHYDRATES; DIETARY HABITS; HUMAN; HYPERTENSION (prevention & control); OBESITY (prevention & control); PROBABILITY; RISK.

## Lynek RH

VARIABILITY IN GRADING DIABETIC RETINOPATHY FROM STEREO FUNDUS

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EFFECTS OF GLUCAGON ON CANINE INTESTINAL SODIUM AND WATER FLUXES AND REGIONAL BLOOD FLOW. MacFerran SN, Mailman D *J Physiol (Lond)* 266: 1-12, Mar 77 (Eng) DL/77AUG386  
ANIMAL; BIOLOGICAL TRANSPORT (drug effects); CAPILLARY RESISTANCE (drug effects); DOGS; GLUCAGON (pharmacodynamics); HISTAMINE (pharmacodynamics); ILEUM (blood supply, drug effects, metabolism); INTES; INAL ABSORPTION (drug effects); REGIONAL BLOOD FLOW (drug effects); SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.; WATER (metabolism).

## MacGregor M

JUVENILE DIABETICS GROWING UP. MacGregor M *Lancet* 1: 944-5, 30 Apr 77 (Eng) DL/77AUG431  
ADOLESCENCE; ADULT; ATTITUDE TO HEALTH; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (complications); DIABETES MELLITUS (mortality); DIABETES MELLITUS (therapy); DIABETES MELLITUS, JUVENILE; DIABETES MELLITUS, JUVENILE (complications); DIABETES MELLITUS, JUVENILE (mortality); DIABETIC NEPHROPATHIES (occurrence); DIABETIC RETINOPATHY (occurrence); FEMALE; FOLLOW-UP STUDIES; HANDICAPPED; HUMAN; LIFE STYLE; MALE; OCCUPATIONS; SUICIDE (occurrence).

## Mackall JC

INDUCTION OF LIPOGENESIS DURING DIFFERENTIATION IN A PREADIPOCYTE CELL LINE. Mackall JC, Student AK, Polakis SE, Lane MD *J Biol Chem* 251: 6462-4, 25 Oct 76 (Eng) \*DL/77AUG53  
ACETATES (metabolism); ACETYL COA CARBOXYLASE (metabolism); ADIPOSE TISSUE (metabolism); ATP CITRATE LYASE (metabolism); CELL AGGREGATION; CELL DIFFERENTIATION; CELL LINE; FATTY ACID SYNTHETASE COMPLEX (metabolism); TRIGLYCERIDES (biosynthesis, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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INHIBITION OF PROLACTIN SECRETION BY DOPAMINE AND PIRIBEDIL. (ET-495). PP. 443-53. Macleod RM, Kimura H, Login I In: *Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) \*DL/77AUG72*  
ANIMAL; APOMORPHINE (pharmacodynamics); ASCORBIC ACID (pharmacodynamics); DOPAMINE (metabolism, pharmacodynamics); ERGOCRYPTINE (pharmacodynamics); FEMALE; FLUPHENAZINE (pharmacodynamics); HALOPERIDOL (pharmacodynamics); KINETICS; MICROSOMES (drug effects, metabolism); MONOGRAPH (mortality); PERFUSION; PERPHENAZINE (pharmacodynamics); PIMOZIDE (pharmacodynamics); PIPERAZINES

(pharmacodynamics); PIRIBEDIL (pharmacodynamics); PITUITARY GLAND (drug effects, secretion); PROLACTIN (secretion); RATS; RECEPTORS; DOPAMINE (drug effects, metabolism); SUBCELLULAR FRACTIONS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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POLYCHLORINATED BIPHENYLS (PHENOCLOL AND PYRALENE) AND INTESTINAL TRANSPORT OF HEXOSES AND AMINO ACIDS IN MICE. Madge DS *Gen Pharmacol* 7: 249-54, Sep 76 (Eng) \*DL/77AUG35  
AMINO ACIDS (metabolism); ANIMAL; BODY WEIGHT (drug effects); FEMALE; GLUCOSE (metabolism); HEXOSES (metabolism); IN VITRO; INTESTINAL ABSORPTION (drug effects); INTESTINES (anatomy & histology); MALE; MICE; POLYCHLOROBIPHENYL COMPOUNDS (pharmacodynamics, toxicity); TIME FACTORS.

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[CARBOHYDRATE METABOLISM AND SERUM AMYLASE ACTIVITY IN NORMAL PERSONS] Otsuki M, Yui H, Yamasaki T, Maeda M, Okano K *Jpn J Gastroenterol* 74: 190-6, Feb 77 (Jpn) DL/77AUG415

## Maglia A

[CHANGES IN INSULIN (IRI) AND NEFA LEVELS IN DIABETIC SUBJECTS AFTER ACUTE INTRAVENOUS GLIPIZIDE AND TOLBUTAMIDE ADMINISTRATION] Fedeli S, Maglia A *Arch Sci Med (Torino)* 134: 33-8, Jan-Mar 77 (Ita) DL/77AUG642

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[RECENT ACQUISITIONS ON THE ENTERO-INSULAR AXIS] Maiello M, Cordera R, Odetti P *Clin Ter* 80: 274-84, 15 Feb 77 (Ita) DL/77AUG239  
ANIMAL; ANTIGENS; DOGS; GASTRIC MUCOSA (physiology); GASTROINTESTINAL HORMONES (pharmacodynamics); HUMAN; INSULIN (secretion); PEPTIDES (pharmacodynamics); RATS.

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EFFECTS OF GLUCAGON ON CANINE INTESTINAL SODIUM AND WATER FLUXES AND REGIONAL BLOOD FLOW. MacFerran SN, Mailman D *J Physiol (Lond)* 266: 1-12, Mar 77 (Eng) DL/77AUG386

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INDUCING EFFECT OF CORTISONE AND INSULIN ON THE ACTIVITY OF BETA-GALACTOSIDASE IN THE E. COLI STRAINS K12. Boichenko MN, Maisky AI *J Hyg Epidemiol Microbiol Immunol (Praha)* 20: 450-6, 1976 (Eng) DL/77AUG359

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[EFFECT OF ATROPINE ON THE AUTOREGULATORY MECHANISM OF INHIBITION OF GASTRIC SECRETION IN PEPTIC ULCER] Saakian AG, Shvarts VJa, Makarova LA *Ter Arkh* 49: 8-11, 1977 (Rus) DL/77AUG524



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[ISOLATION OF MRNA CODING INSULIN-LIKE PEPTIDE SYNTHESIS FROM HUMAN INSULINOMAS AND RAT PANCREAS] Iudaev NA, Lebedeva MB, Makarovskaia EE, Smirnova NB, Khilko SN *Biokhimiia* 42: 175-7, Jan 77 (Rus) DL/77AUG198

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ADENOSINE DIPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; BINDING SITES; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT; ACTIVE; CALCIUM (metabolism); KINETICS; MAGNESIUM (pharmacodynamics); MEMBRANES (drug effects, metabolism); MONOGRAPH (mortality); PHOSPHATES (pharmacodynamics); SARCOPLASMIC RETICULUM (drug effects, metabolism).

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[C-REACTIVE PROTEIN IN PATIENTS WITH ACUTE PURULENT INFECTION] Iukhtin VI, Makushkin PN *Khirurgiia (Mosk)* 32-6, 1977 (Rus) DL/77AUG420

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ANIMAL; CALCIUM (metabolism); FEMALE; GLUCOSE (metabolism); INSULIN (metabolism); IPROVERATRIL (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, metabolism); LACTATES (metabolism); PHENTOLAMINE (pharmacodynamics); PROINSULIN (biosynthesis); RATS; THEOPHYLLINE (pharmacodynamics).

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ADENYL CYCLASE (antagonists & inhibitors, metabolism); ADIPOSE TISSUE (enzymology); ANIMAL; ENZYME ACTIVATION (drug effects); FLUORIDES (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); KINETICS; MALE; MANGANESE (pharmacodynamics); PYROPHOSPHATES (pharmacodynamics); RATS; TIME FACTORS.

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HAND INFECTIONS IN PATIENTS WITH DIABETES MELLITUS. Mann RJ, Peacock JM *J Trauma* 17: 376-80, May 77 (Eng) DL/77AUG392

ADULT; AGED; AMPUTATION; BACTERIAL INFECTIONS (complications, pathology, therapy); CASE REPORT; DIABETES MELLITUS (complications, diagnosis); DIABETIC NEUROPATHIES (complications); FEMALE; HAND (pathology, surgery); HUMAN; MALE; MIDDLE AGE; PENICILLINS (therapeutic use).

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[STATE OF THE EXOCRINE APPARATUS OF THE PANCREAS IN PATIENTS WITH INSULINOMAS] Manusharova RA, Mkrtumova NA *Khirurgiia (Mosk)* 87-90, Sep 76 (Rus) \*DL/77AUG93

ADULT; AMYLASE (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; ISLET CELL TUMOR (enzymology); MALE; MIDDLE AGE; PANCREAS (enzymology); PANCREATIC NEOPLASMS (enzymology); TRYPSIN INHIBITORS (blood); TRYPSIN (blood).

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ANIMAL; FEMALE; PLACENTA (metabolism); PREGNANCY; PREGNENOLONE (metabolism); PROGESTERONE (metabolism); RABBITS; TIME FACTORS.

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EFFECT OF FOOD INGESTION ON INTESTINAL GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) SECRETION IN NORMAL AND GASTRECTOMIZED SUBJECTS. Marco J, Hedo JA, Villanueva ML, Calle C, Corujedo A, Segovia JM *Diabetologia* 13: 131-5, Apr 77 (Eng) DL/77AUG303

ADULT; DIETARY CARBOHYDRATES; DIETARY PROTEINS; EATING; FEMALE; GASTRECTOMY; GLUCAGON (secretion); GLUCOSE TOLERANCE TEST; HUMAN; INTESTINAL MUCOSA (secretion); MALE; MIDDLE AGE; POSTGASTRECTOMY SYNDROMES (metabolism).

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CHLORIDES (urine); CHLORPROPAMIDE (pharmacodynamics); COMPARATIVE STUDY; CREATININE (metabolism); DEHYDRATION (physiopathology); DIABETES INSIPIDUS (physiopathology); DIURESIS (drug effects); HUMAN; POTASSIUM (urine); SODIUM (urine); URINATION; VASOPRESSIN (pharmacodynamics); WATER.

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STUDIES WITH AN ARTIFICIAL ENDOCRINE PANCREAS. Albisser AM, Leibel BS, Zimman B, Murray FT, Zingg W, Botz CK, Denoga A, Marliis EB *Arch Intern Med* 137: 639-49, May 77 (Eng) DL/77AUG638

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FAILURE TO THRIVE DUE TO PONTINE GLIOMA. Maroon JC, Albright L *Arch Neurol* 34: 295-7, May 77 (Eng) DL/77AUG646

ADOLESCENCE; ANOREXIA NERVOSA (diagnosis); ASTROCYTOMA; BRAIN NEOPLASMS (complications, diagnosis, surgery); CASE REPORT; CEREBROSPINAL FLUID PROTEINS (analysis); CHILD DEVELOPMENT DEVIATIONS (diagnosis); DIAGNOSIS, DIFFERENTIAL; GLUCOSE TOLERANCE TEST; HUMAN; MALE; PONS; THINNESS (etiology).

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ABNORMALITIES, MULTIPLE; ADRENAL CORTIX HORMONES (therapeutic use); CASE

REPORT; DIAZOXIDE (therapeutic use); HUMAN; HYPOGLYCEMIA (etiology); INFANT; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (drug therapy); MACROGLOSSIA; MALE; SYNDROME; UMBILICAL HERNIA (congenital).

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MICROCALORIMETRIC MEASUREMENTS OF HEAT PRODUCTION IN HUMAN ERYTHROCYTES. II. HYPERTHYROID PATIENTS BEFORE, DURING AND AFTER TREATMENT. Monti M, Wadso I  
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BUFFERS; CALORIMETRY; CARBIMAZOLE (therapeutic use); ERYTHROCYTES (metabolism); GLUCOSE (metabolism); HEAT; HUMAN; HYPERTHYROIDISM (blood, drug therapy); IODINE RADIOISOTOPES; PROPRANOLOL (therapeutic use); PROPYLTHIOURACIL (therapeutic use); PROTEIN-BOUND IODINE TEST; THYROIDECTOMY; THYROXINE (metabolism, therapeutic use); TRIIODOTHYRONINE (metabolism).

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ANIMAL; BIOLOGICAL TRANSPORT; CELL MEMBRANE PERMEABILITY; GLUCOSE (metabolism); HEART (physiology); HUMAN; MYOCARDIUM (enzymology, metabolism); RATS; SARCOPLASMIC RETICULUM (physiology).

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*Chem Pharm Bull (Tokyo)* 24: 1845-52, Aug 76 (Eng)  
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COMPARATIVE STUDY; CYTOCHROMES (metabolism); GALACTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); SACCHAROMYCES CEREVISIAE (drug effects, enzymology).

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[MYOCARDIAL INFARCTION: COMPARATIVE STUDY OF PRINCIPAL RISK FACTORS IN THE TWO SEXES] Blanc JJ, Boschat J, Morin JF, Granatelli D, Floch H, Penher P  
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**ANIMAL; BLOOD SUGAR (metabolism); CELL MEMBRANE (metabolism); DIABETES MELLITUS (chemically induced, drug therapy, metabolism); HEXOSEPHOSPHATES (metabolism); INSULIN (blood, pharmacodynamics); INSULIN, PROTAMINE ZINC (therapeutic use); LACTATES (metabolism); LUNG (metabolism); MALE; RATS; RECEPTORS, INSULIN (metabolism); STREPTOZOTOCIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

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**IDIOPATHIC RECURRENT SUPERFICIAL THROMBOPHLEBITIS: TREATMENT WITH FIBRINOLYTIC ENHANCEMENT.** Jarrett PE, Morland M, Browne NL *Br Med J* 1: 933-4, 9 Apr 77 (Eng) DL/77AUG210

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**ANIMAL; BLOOD SUGAR (analysis); GASTRIC JUICE (secretion); HYPOTHALAMUS (physiology); HYPOTHALAMUS, POSTERIOR (physiology); INSULIN (blood); MALE; RATS.**

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**CELL DIVISION (drug effects); CELLS, CULTURED; CYCLOHEXIMIDE (pharmacodynamics); DACTINOMYCIN (pharmacodynamics); DNA (biosynthesis); HYALURONIC ACID (biosynthesis); HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); MAGNESIUM (pharmacodynamics); PROTEINS (biosynthesis); RNA (biosynthesis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UDP GLUCURONOSYLTRANSFERASE (metabolism).**

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**MYOCARDIAL FUNCTION AND CORONARY BLOOD FLOW RESPONSE TO ACUTE ISCHEMIA IN CHRONIC CANINE DIABETES.** Haider B, Ahmed SS, Moschos CB, Oldewurtel HA, Regan TJ *Circ Res* 40: 577-83, Jun 77 (Eng) DL/77AUG227

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**IDENTIFICATION OF A RECEPTOR FOR SOMATOMEDIN-LIKE POLYPEPTIDES IN HUMAN FIBROBLASTS.** Rechler MM, Nissley SP, Podskalny JM, Moses AC, Fryklund L *J Clin Endocrinol Metab* 44: 820-31, May 77 (Eng) DL/77AUG348

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**ANTIGEN-ANTIBODY REACTIONS; BACTERIAL TOXINS (immunology, pharmacodynamics); BINDING SITES; CELL**

**MEMBRANE PERMEABILITY (drug effects); COMPLEMENT (metabolism); G(M1) GANGLIOSIDE (immunology, metabolism); GANGLIOSIDES (metabolism); GLUCOSE (metabolism); LIPOSOMES; MEMBRANE LIPIDS (metabolism); VIBRIO CHOLERAE.**

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**HYPOGLYCAEMIA AND FOOD INTAKE IN RATS GIVEN GRADUATED DOSES OF INSULIN.** Mozes S, Kuchar S, Boda K *Physiol Bohemoslov* 159-64, 1977 (Eng) DL/77AUG505  
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**SPONTANEOUS VARIATIONS IN FOOD INTAKE AND BALANCE OF DIABETES. A COVARIANCE ANALYSIS.** Dorchy H, Mozin MJ, Smets P, Ernould C, Loeb H *Acta Paediatr Belg* 30: 21-6, Jan-Mar 77 (Eng) DL/77AUG586

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**ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); CIRCADIAN RHYTHM; COMPARATIVE STUDY; CORTISONE (pharmacodynamics, therapeutic use); DIABETIC RETINOPATHY (blood, drug therapy); DRUG COMBINATIONS; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HUMAN; MALE; MIDDLE AGE; PREDNISOLONE (pharmacodynamics, therapeutic use); SOMATOTROPIN (blood).**

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**[SUMMARY GLYCOGEN IN CARP AFTER GLUCAGON OR INSULIN INJECTION (AUTHORS TRANSL.) (PROCEEDINGS)]** Murat JC *Ann Endocrinol (Paris)* 37: 523-4, Nov-Dec 76 (Fre) DL/77AUG625  
**AMYLAASE (metabolism); ANIMAL; CARP; ENGLISH ABSTRACT; GLUCAGON (pharmacodynamics); GLUCOSIDASES (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); INSULIN (pharmacodynamics); LIVER GLYCOGEN (metabolism); LIVER (drug effects, metabolism).**

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**PORTACAVAL DIVERSION FOR SEVERE HYPERCHOLESTEROLEMIA. REPORT OF A CASE WITH MEASUREMENTS OF GLUCOSE TOLERANCE, INSULIN, AND GLUCAGON LEVELS.** Weglicki WB, Ganda OP, Soeldner JS, Murawski BJ, Cohn LH, Couch NP *Arch Surg* 112: 634-6, May 77 (Eng) DL/77AUG644

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**UROLOGICAL PROBLEMS IN AGED PATIENTS.** Murphy JT *Aust Fam Physician* 6: 17-8, 21, 25 passim, Jan 77 (Eng) DL/77AUG649  
**AGED; BLADDER NECK OBSTRUCTION (diagnosis, etiology); CYSTITIS (diagnosis, therapy); DIABETES MELLITUS (diagnosis); FEMALE; HUMAN; MALE; PARKINSONISM (drug therapy); PROSTATIC HYPERTROPHY (complications); PROSTATIC NEOPLASMS (complications); URETHRITIS (diagnosis, therapy); URINARY INCONTINENCE (therapy); URINARY TRACT INFECTIONS (therapy); URINATION DISORDERS (chemically induced); UROLOGIC DISEASES.**

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[REFERENCE VALUES FOR BLOOD SUGAR AND INSULIN DURING THE PROLONGED FASTING TEST IN A QUEBEC POPULATION] Nadeau A *Union Med Can* 106: 343-6, Mar 77 (Fre) DL/77AUG539

ADOLESCENCE; ADULT; AGE FACTORS; BLOOD SUGAR (analysis); BODY WEIGHT; ENGLISH ABSTRACT; FASTING; FEMALE; HUMAN; INSULIN (blood); ISLET CELL TUMOR (diagnosis); MALE; METHODS; MIDDLE AGE; PANCREATIC NEOPLASMS (diagnosis); QUEBEC; SEX FACTORS.

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[DIABETES MELLITUS AND IMMUNOLOGY] Sakurami T, Nabetani N, Nagaoka K, Ogawa H, Kuno S *Jpn J Clin Med* 35: 296-301, 10 Feb 77 (Jpn) DL/77AUG405

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ACYLTRANSFERASES (blood); ADOLESCENCE; ADULT; COLORIMETRY (methods); DIABETES MELLITUS (enzymology); EVALUATION STUDIES; HUMAN; KINETICS; LECTHIN ACYLTRANSFERASE (blood); LIVER CIRRHOSIS (enzymology); MIDDLE AGE.

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ANIMAL; CASTRATION; FEMALE; LACTATE DEHYDROGENASE ISOENZYMES (metabolism); LACTATES (metabolism); MALE; PITUITARY GLAND (metabolism); PITUITARY GLAND, ANTERIOR (metabolism); PITUITARY GLAND, ANTERIOR (enzymology); PYRUVATES (metabolism); RATS; SEX FACTORS.

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ISLET TRANSPLANTATION. THE CRITICAL PERIOD OF DONOR ISCHEMIA IN NEONATAL RATS. Matas AJ, Sutherland DE, Payne WD, Kretschmer GJ, Steffes MW, Najarian JS *Transplantation* 23: 295-8, Mar 77 (Eng) DL/77AUG532

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DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); HISTOCOMPATIBILITY ANTIGENS, HL-A; HUMAN.

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ACETATES (metabolism); ALCOHOL OXIDOREDUCTASES (metabolism); ANIMAL; CHOLESTEROL (biosynthesis); DIABETES MELLITUS (chemically induced, enzymology); DIURNAL RHYTHM; EATING; HYDROXYMETHYLGLUTARYL COA REDUCTASES (metabolism); ILEUM (pathology); INSULIN (blood); INTESTINAL MUCOSA (pathology); INTESTINES (enzymology); JEJUNUM (pathology); LIVER (enzymology); MALE; ORGAN WEIGHT; RATS; STREPTOZOTOCIN.

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BIOCHEMICAL DIFFERENCES BETWEEN HUMAN MALIGNANT AND BENIGN INSULINOMA TISSUES. Nakazawa I, Ohneda A, Mura K *Tohoku J Exp Med* 121: 275-80, Mar 77 (Eng) DL/77AUG527

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C-PEPTIDE (analysis); ENGLISH ABSTRACT; HUMAN; IODINE RADIOISOTOPES; ISOTOPE LABELING; PEPTIDES (analysis); PROINSULIN (analysis); RADIOIMMUNOASSAY (methods).

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AGED; ALANINE (blood); BLOOD SUGAR (metabolism); CIRCADIAN RHYTHM (drug effects); COMPARATIVE STUDY; DIABETES MELLITUS (blood, drug therapy); FEMALE; GLIBENCLAMIDE (pharmacodynamics); GLUCONEOGENESIS (drug effects); HUMAN; INSULIN (blood); KETONE BODIES (blood); LACTATES (blood); LIPIDS (blood); MALE; METFORMIN (pharmacodynamics); MIDDLE

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INHIBITORY EFFECT OF IMMOBILIZATION STRESS ON DEPRESSION OF LIVER TYROSINE AMINOTRANSFERASE AND TRYPTOPHAN PYRROLASE BY GLUCOSE FEEDING IN RATS. Nemieth S *Endocrinol Exp (Bratisl)* 11: 43-8, Mar 77 (Eng) DL/77AUG255

ALLOXAN DIABETES (enzymology); ANIMAL; GLUCOSE (pharmacodynamics); LIVER (drug effects, enzymology); MALE; MOTOR ACTIVITY; PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); RATS; STRESS (enzymology); TRYPTOPHAN OXYGENASE (metabolism); TYROSINE AMINOTRANSFERASE (metabolism).

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ABORTION, THREATENED (therapy); ANIMAL; DWARFISM (metabolism); ESTRADIOL (blood); FEMALE; HUMAN; LABOR, PREMATURE (therapy); MALE; MICE; MICE, OBESE; MONOGRAPH (mortality); ORGAN SPECIFICITY; PLACENTA (metabolism); PLACENTAL LACTOGEN (pharmacodynamics, physiology, therapeutic use); PREGNANCY, PROGESTERONE (blood); PROLACTIN (pharmacodynamics); PROSTATE (ultrastructure); RATS; REPRODUCTION (drug effects); SEMINAL VESICLES (ultrastructure); SOMATOTROPIN (pharmacodynamics); STEROIDS (metabolism); TESTIS (ultrastructure).

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ADULT; BILE ACIDS AND SALTS (biosynthesis); CHOLESTEROL (blood); GLYCERIN (metabolism); HUMAN; HYPERLIPIDEMIA (metabolism); KINETICS; LIPOPROTEINS, VLDL (blood); MALE; MIDDLE AGE; OBESITY (metabolism); TRIGLYCERIDES (blood).

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**AGED; BRAIN (physiopathology); CASE REPORT; CEREBRAL ANOXIA (complications, etiology); CHEEK; DIABETES MELLITUS (complications); ELECTROENCEPHALOGRAPHY; HUMAN; MALE; MYOCARDIAL INFARCT (complications); MYOCLONUS (etiology, physiopathology); PHYSICAL STIMULATION.**

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**EXPERIMENTAL PANCREATODUODENAL ALLOTTRANSPLANTATION: STUDIES IN THE UNIMMUNOSUPPRESSED PIG.** Jensen SL, Nielsen OV, Kuhl C, Petri M *Dan Med Bull* 24: 55-60, Apr 77 (Eng) DL/77AUG241

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**[DIABETES INSIPIDUS IN INFANCY. I. REVIEW (AUTHORS TRANSL.) de Yturriaga R, Barrio R, Nieto JA, Lama R, Lledo G, Gracia Y *An Exp Pediatr* 9: 612-25, Nov-Dec 76 (Spa) DL/77AUG618**

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**[PANCREATIC BETA CELLS AND GLUCOSE RECEPTOR]** Niki A, Niki H *Jpn J Clin Med* 33: 248-54, 10 Feb 77 (Jpn) DL/77AUG399  
**DIABETES MELLITUS (metabolism); GLUCOSE (metabolism); HUMAN; ISLANDS OF LANGERHANS (metabolism); RECEPTORS, DRUG (metabolism).**

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis, metabolism, pharmacodynamics); ADENYL CYCLASE (biosynthesis); BACTERIAL PROTEINS (biosynthesis); COLIPHAGES; ENZYME REPRESSION; ESCHERICHIA COLI (metabolism); GALACTOSIDASES (biosynthesis); GENES; GLUCOSE (metabolism); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (cytology); LACTOSE (metabolism); MUTATION; OPERON; PROTEIN BINDING; REVIEW; 3,5-CYCLIC AMP PHOSPHODIESTERASE (biosynthesis).

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[HORMONES AND CORONARY HEART DISEASE (EDITORIAL)] Patrono V *G Ital Cardiol* 7: 215-20, 1977 (*Ita*) DL/77AUG315  
CATECHOLAMINES (metabolism); CORONARY DISEASE (metabolism); GLUCOCORTICOIDS (metabolism); HORMONES (metabolism); HUMAN; INSULIN (metabolism); PROSTAGLANDINS (metabolism); THYROID HORMONES (metabolism); VASOPRESSIN (metabolism).

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[DISTURBANCES OF THE RETINAL CIRCULATION (AUTHORS TRANSL.)] Pavisic Z *Lije Vjesn* 99: 109-13, Feb 77 (*Scr*) DL/77AUG435  
DIABETIC RETINOPATHY (physiopathology); ENGLISH ABSTRACT; HUMAN;

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INTRAOCULAR PRESSURE;  
OPHTHALMODYNAMOMETRY; RETINAL  
DISEASES (physiopathology); RETINAL  
HEMORRHAGE (physiopathology); RETINAL  
VESSELS (physiopathology).

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ACTIVATION OF EPINEPHRINE-SENSITIVE ADENYLATE CYCLASE IN RAT LIVER BY CYTOSOLIC PROTEIN-NUCLEOTIDE COMPLEX. Pecker F, Hanoune J *J Biol Chem* 252: 2784-6, 25 Apr 77 (Eng) DL/77AUG341  
ADENYL CYCLASE (metabolism); ANIMAL; CELL MEMBRANE (physiology); CYTOSOL (physiology); ENZYME ACTIVATION (drug effects); EPINEPHRINE (pharmacodynamics); FEMALE; FLUORIDES (pharmacodynamics); GLUCAGON (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); KINETICS; LIVER (enzymology); PROTEINS (physiology); RATS.

### Peeters LL

SERUM LEVELS OF HUMAN PLACENTAL LACTOGEN AND HUMAN CHORIONIC GONADOTROPIN IN EARLY PREGNANCY: A MATURATIONAL INDEX OF THE PLACENTA. Peeters LL, Lemons JA, Niswender GD, Battaglia FC *Am J Obstet Gynecol* 126: 707-11, 15 Nov 76 (Eng) \*DL/77AUG150

FEMALE; GESTATIONAL AGE;  
GONADOTROPINS, CHORIONIC (blood); HUMAN; PLACENTA (physiology); PLACENTAL LACTOGEN (blood); PREGNANCY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[MEAN VALUES OF PDI AND OHI INDICES IN CHILDREN WITH SOME METABOLIC DISEASES] Jakob-Dolezal K, Pelcowa M, Prostak-Kosowska K *Czas Stomatol* 30: 304, Apr 77 (Pol) DL/77AUG243

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ACINAR ADENOMAS OF THE PANCREAS IN MRC-WISTAR RATS. Love L, Pelfrene A, Garcia H *J Comp Pathol* 87: 307-10, Apr 77 (Eng) DL/77AUG354

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ANIMAL; ENGLISH ABSTRACT; HUMAN; IMMUNOENZYME TECHNIQS; ISLANDS OF LANGERHANS (analysis); MICROSCOPY, ELECTRON; PANCREAS (analysis); PANCREATIC HORMONES (analysis); PEPTIDES (analysis); RATS.

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DIPHENYLHYDANTOIN INHIBITION OF PENTAGASTRIN-STIMULATED CALCITONIN SECRETION IN THE PIG. Pento JT *Horm Metab Res* 8: 399-401, Sep 76 (Eng) \*DL/77AUG40

ANIMAL; BLOOD SUGAR (metabolism); CALCITONIN (blood); CALCIUM (blood); DIPHENYLHYDANTOIN (pharmacodynamics); MALE; PENTAGASTRIN (pharmacodynamics); SWINE; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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EXTENT OF MITOGEN RECEPTOR OCCUPANCY AND MODULATION OF MITOGEN RECEPTOR EXPOSURE: POSSIBLE MECHANISMS FOR THE REGULATION OF CELL GROWTH. Perdue JF, Raizada MK *Prog Clin Biol Res* 9: 49-64, 1976 (Eng) DL/77AUG502

BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT; CAMPTOTHECIN (pharmacodynamics); CELL TRANSFORMATION, NEOPLASTIC; CELLS, CULTURED; CULTURE MEDIA; CYCLOHEXIMIDE (pharmacodynamics); DEOXYADENOSINE (pharmacodynamics); DEOXYGLUCOSE (metabolism); DNA REPLICATION (drug effects); INSULIN (metabolism, pharmacodynamics); KINETICS; MITOGENS (pharmacodynamics); PHOSPHODIESTERASES (metabolism); RECEPTORS, INSULIN (drug effects, metabolism); THYMIDINE (metabolism); 3,5-CYCLOCAMP PHOSPHODIESTERASE (metabolism).

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INSULIN KINETICS AFTER PORTAL AND PERIPHERAL INJECTION OF LABELLED INSULIN. PROCEDURE TO BE USED WHEN NO INDEPENDENT MEASURE OF LIVER PLASMA FLOW IS AVAILABLE. Lassen NA, Peri W *J Nucl Biol Med* 20: 180-2, Oct - Dec 76 (Eng) DL/77AUG373

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BULLOUS PEMPHIGOID RESPONDING TO SULFAPYRIDINE AND THE SULFONES. Persson JR, Rogers RS *3d Arch Dermatol* 113: 610-5, May 77 (Eng) DL/77AUG631  
AGED; AUTOANTIBODIES (analysis); BASEMENT MEMBRANE; CANDIDA ALBICANS (isolation & purification); CASE REPORT; COMPLEMENT 3 (analysis); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; ESOPHAGUS (microbiology); FEMALE; HUMAN; IGG (analysis); IGM (analysis); LIVER CIRRHOSIS (complications); MALE; MIDDLE AGE; PEMPHIGUS (complications, drug therapy); SKIN DISEASES, BULLOUS (drug therapy); STREPTOCOCCUS (isolation & purification); SULFANILAMIDES (therapeutic use);

SULFAPYRIDINE (therapeutic use); SULFONES (therapeutic use).

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B AND T CELL SURFACE MARKERS ON PERIPHERAL LYMPHOCYTES FROM DIABETIC PATIENTS. Perussia B, Tossi B, Ruggeri C *Ric Clin Lab* 6: 326-31, Oct-Dec 76 (Eng) DL/77AUG513  
ADULT; AGE FACTORS; AGED; B-LYMPHOCYTES (immunology); DIABETES MELLITUS (immunology); FEMALE; FLUORESCENT ANTIBODY TECHNIC; HUMAN; IMMUNOGLOBULINS, SURFACE (analysis); IMMUNOLOGIC TECHNIQS; MIDDLE AGE; T-LYMPHOCYTES (immunology).

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INSULIN AND CYCLIC AMP RELEASE BY ISOLATED-INCUBATED ISLETS OF LANGERHANS. Gagliardini JJ, Pessacq MT, Hernandez RE *J Endocrinol* 73: 179-80, Apr 77 (Eng) DL/77AUG368

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[HISTOLOGICAL AND IMMUNOHISTOCHEMICAL INVESTIGATIONS ON THE TRANSPLANTED ISOLATED ISLETS OF LANGERHANS IN DIABETIC RATS (AUTHORS TRANSL)] Lorenz D, Estel S, Gehrandt F, Dorn A, Petermann J, Beckert R *Acta Histochem (Jena)* 58: 85-99, 1977 (Ger) DL/77AUG580

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[ANTIBACTERIAL THERAPY OF URINARY TRACT INFECTIONS. RESULTS OF A CLINICAL TRIAL WITH THE COMBINATION SULFAMOXOL/TRIMETHOPRIM (CN 3123) (AUTHORS TRANSL)] Peters HJ, Nuri M, Pöpa G *Munch Med Wochenschr* 119: 409-12, 25 Mar 77 (Ger) DL/77AUG451  
ADOLESCENCE; ADULT; AGED; CHRONIC DISEASE; CLINICAL RESEARCH; DIABETES MELLITUS (complications); DRUG COMBINATIONS; DRUG EVALUATION; DRUG RESISTANCE, MICROBIAL; ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIA (etiology); INDWELLING CATHETER; MALE; MIDDLE AGE; PYELONEPHRITIS (drug therapy); SULFAMOXOLE (adverse effects, therapeutic use); TRIMETHOPRIM (adverse effects, therapeutic use); URINARY TRACT INFECTIONS (complications, drug therapy).

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A METHOD FOR ESTABLISHING CELL LINES FROM DROSOPHILA MELANOGASTER EMBRYOS. Petersen NS, Riggs AD, Seecof RL *In Vitro* 13: 36-40, Jan 77 (Eng) DL/77AUG326  
CELL DIVISION; CELL LINE; CHROMOSOMES; CULTURE MEDIA; CYTOLOGICAL TECHNIQS; DROSOPHILA MELANOGASTER (embryology); GENES, RECESSIVE; INSULIN; SEX CHROMOSOMES; TRANSLOCATION (GENETICS) (transplantation); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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CORRELATION OF SERUM TRIGLYCERIDE LEVELS AND HEMOGLOBIN A1C CONCENTRATIONS IN DIABETES MELLITUS. Peterson CM, Koenig RJ, Jones RL, Saudes CD, Cerami A *Diabetes* 26: 507-9, May 77 (Eng) DL/77AUG297

ADULT; CARBOHYDRATES (metabolism); CHOLESTEROL (blood); DIABETES MELLITUS (blood); DIABETES MELLITUS, JUVENILE (blood); FEMALE; HEMOGLOBIN A (metabolism); HEMOGLOBINS (metabolism); HUMAN; MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

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**HUMAN GROWTH HORMONE: A FAMILY OF PROTEINS.** PP. 64-74. Lewis UJ, Singh RN, Peterson SM, Vanderlaan WP In: *Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng)* \*DL/77AUG71

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**[OUR EXPERIENCE WITH MONOCOMPONENT INSULIN THERAPY]** Gero L, Tamas G Jr, Petranyi G Jr, Koranyi L, Baranyi E *Orv Hetil* 118: 1165-7, 15 May 77 (Hun) DL/77AUG47

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**EXPERIMENTAL PANCREATODUODENAL ALLOTRANSPLANTATION: STUDIES IN THE UNIMMUNOSUPPRESSED PIG.** Jensen SL, Nielsen OV, Kuhl C, Petri M *Dan Med Bull* 24: 55-60, Apr 77 (Eng) DL/77AUG241

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**STRESS AND EXPERIMENTAL ATHEROSCLEROSIS.** Petz R, Jezkova Z *Physiol Bohemoslov* 25: 375-9, 1976 (Eng) \*DL/77AUG17

ANIMAL; ANTIBODY FORMATION; ARTERIOSCLEROSIS (chemically induced, immunology); CHOLESTEROL, DIETARY; DIET, ATHEROGENIC; RABBITS; STRESS (immunology).

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**EFFECTS OF LITHIUM ON INDUCIBLE ENZYMES OF RAT LIVER.** Grier GW III, Davis LC, Pfeifer WD *Horm Metab Res* 8: 379-83, Sep 76 (Eng) \*DL/77AUG39

# Pfeiffer EF

**COAGULATION STUDIES AND PLATELET FUNCTION AFTER SOMATOSTATIN INFUSION.** Rasche H, Raptis S, Scheck R, Pfeiffer EF *Klin Wochenschr* 54: 977-82, 15 Oct 76 (Eng) \*DL/77AUG94

# Phillips GB

**RELATIONSHIP BETWEEN SERUM SEX HORMONES AND GLUCOSE, INSULIN AND LIPID ABNORMALITIES IN MEN WITH MYOCARDIAL INFARCTION.** Phillips GB *Proc Natl Acad Sci USA* 74: 1729-33, Apr 77 (Eng) DL/77AUG490

ADULT; BLOOD SUGAR (metabolism); CHOLESTEROL (blood); ESTRADIOL (blood); HUMAN; INSULIN (blood); LIPIDS (blood); LIPOPROTEINS, LDL (blood); MALE; MYOCARDIAL INFARCT (blood); SOMATOTROPIN (blood); TESTOSTERONE (blood); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

# Phillips PJ

**RATIONALIZING THE DIAGNOSIS OF DIABETES MELLITUS.** Phillips PJ, Pain RW *Med J Aust* 1: 380-1, Mar 12 77 (Eng) DL/77AUG446

ADULT; AGE FACTORS; BLOOD SUGAR (analysis); COSTS AND COST ANALYSIS; DIABETES MELLITUS (blood, diagnosis); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; MALE.

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**[DIABETES AND DISEASES OF THE INTERNAL EAR]** Thibert R, Tarantino L, Piche JJ *Otolaryngol* 6: 173-9, Apr 76 (Fre) DL/77AUG393

# Picou D

**A COMPARISON OF FASTING PLASMA INSULIN AND GROWTH HORMONE CONCENTRATIONS IN MARASMIC, KWASHIORKOR, MARASMIC-KWASHIORKOR AND UNDERWEIGHT CHILDREN.** Robinson H, Picou D *Pediatr Res* 11: 637-40, May 77 (Eng) DL/77AUG480

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**STUDIES ON THE DISULFIDE BONDS OF GLYCOPROTEIN HORMONES. COURSE OF REDUCTION OF BOVINE LUTEINIZING HORMONE, BOVINE THYROID-STIMULATING HORMONE, AND THEIR SUBUNITS.** Pierce JG, Giudice LC, Reeve JR *J Biol Chem* 251: 6388-91, 25 Oct 76 (Eng) \*DL/77AUG51

BINDING SITES; CATTLE; DISULFIDES; DITHIOTHREITOL; ELECTROPHORESIS, POLYACRYLAMIDE GEL; LH; MACROMOLECULAR SYSTEMS; OXIDATION-REDUCTION; PROTEIN BINDING; PROTEIN CONFORMATION; THYROTROPIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

# Pigareva MI

**[ISOLATION OF THE ISLANDS OF LANGERHANS FROM RAT PANCREAS AND DETERMINATION OF PROTEOLYTIC ACTIVITY IN THEM]** Pigareva MI, Beliaeva NF, Staroseltseva LK *Vopr Med Khim* 22: 137-40, Jan-Feb 76 (Rus) DL/77AUG552

AMYLASE (analysis); ANIMAL; CARBOXYPEPTIDASES (analysis); CENTRIFUGATION; CULTURE MEDIA; ENGLISH ABSTRACT; HYDROGEN-ION CONCENTRATION (physiology); ISLANDS OF LANGERHANS (analysis, enzymology); PEPTIDE HYDROLASES (analysis); RATS; TISSUE EXTRACTS (isolation & purification).

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**COMPARATIVE EFFECTS OF ACEBUTOLOL AND PRACTOLOL ON THE LIPOLYTIC RESPONSE TO ISOPRENALINE.** Gibbons DO, Lant AF, Ashford A, Collins RF, Pinder S *Br J Clin Pharmacol* 3: 177-84, Feb 76 (Eng) \*DL/77AUG1

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**[TECHNICAL NOTE ON RETINAL PANPHOTOCOAGULATION]** Bonnet M, Grange JD, Pingault C *Bull Soc Ophthalmol Fr* 76: 239, Mar 76 (Fre) DL/77AUG222

# Pinto P

**[BEHAVIOR OF URINARY HYDROXYPROLINE IN NORMAL PREGNANCY AND IN SOME FORMS OF PREGNANCY PATHOLOGY]** Ragni N, Pinto P, Bentivoglio G, Repetti F, Boraso W *Ann Ostet Ginecol Med Perinat* 98: 108-14, Mar-Apr 77 (Ita) DL/77AUG620

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**[CORRELATION BETWEEN PATHOLOGICAL CHANGES IN THE ORAL CAVITY AND THE LEVEL OF IMMUNOREACTIVE INSULIN IN DIABETIC CHILDREN]** Serafinowska A, Walczak M, Piontek E *Czas Stomatol* 30: 301-2, Apr 77 (Pol) DL/77AUG242

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**CONGENITAL HYPOPHYSECTOMY ASSOCIATED WITH NEONATAL HYPOGLYCEMIA AND MICROPHALLUS: EFFECT OF GH THERAPY.** Cacciari E, Cicognani A, Pirazzoli P, Tassoni P, Bernardi F, Salardi S, Zappulla F, Mazzanti L *Helv Paediatr Acta* 31: 481-5, Apr 77 (Eng) DL/77AUG332

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**[EFFECT OF 2-BROMO-ALPHA-ERGOCRYPTINE ON THE RESPONSE OF THE HYPOTHALAMO-HYPOPHYSAL-**

**ADRENAL SYSTEM TO INSULIN HYPOGLYCEMIA IN MAN]** Bertolini S, Elicio N, Jacopino GE, Castello C, Pistocchi G, Barban G, Balestreri R *Boll Soc Ital Biol Sper* 52: 1550-6, 15 Oct 76 (Ita) DL/77AUG186

**[PROSTAGLANDINS AND INSULIN SECRETION: EFFECT INDOMETHACIN ON THE SERUM INSULIN RESPONSE TO GLUCAGON IN MAN]** Bertolini S, Castello C, Jacopino GE, Pistocchi G, Elicio N, Balestreri R *Boll Soc Ital Biol Sper* 52: 1576-82, 15 Oct 76 (Ita) DL/77AUG187

# Plouvier B

**[IMPACT, ON BLOOD AND TISSUE LIPIDS, OF AN ARTIFICIAL LIPID EMULSION COMBINED WITH ESSENTIAL AMINO ACIDS AND SORBITOL, USED IN HUMANS IN EXCLUSIVE PARENTERAL FEEDING]** Scherperel P, Nouvelot A, Fruchart JC, Dewailly P, Plouvier B *Ann Anesthesiol Fr* 17: 29-35, 1976 (Fre) \*DL/77AUG152

# Poberezhniuk MP

**[CASES OF SPONTANEOUS HYPOGLYCEMIA IN PATIENTS WITH DIABETES MELLITUS]** Gruzina EA, Vasileva RD, Kuznetsova NP, Poberezhniuk MP *Vrach Delo* 15-8, Apr 77 (Rus) DL/77AUG560

# Pochechueva GA

**[TREATMENT OF DIABETES MELLITUS]** Pochechueva GA *Feldsher Akush* 42: 18-23, Jan 77 (Rus) DL/77AUG272

DIABETES MELLITUS (therapy); HUMAN.

# Podskalny JM

**IDENTIFICATION OF A RECEPTOR FOR SOMATOMEDIN-LIKE POLYPEPTIDES IN HUMAN FIBROBLASTS.** Rechler MM, Nissley SP, Podskalny JM, Moses AC, Fryklund L *J Clin Endocrinol Metab* 44: 820-31, May 77 (Eng) DL/77AUG348

# Pohjanpelto P

**PUTRESCINE TRANSPORT IS GREATLY INCREASED IN HUMAN FIBROBLASTS INITIATED TO PROLIFERATE.** Pohjanpelto P *J Cell Biol* 68: 512-20, Mar 76 (Eng) DL/77AUG344

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); BIOLOGICAL TRANSPORT (drug effects); BLOOD; CADAVERINE (pharmacodynamics); CALCIUM (pharmacodynamics); CELL DIVISION; CELL LINE; CELL TRANSFORMATION; NEOPLASTIC; DIBUTYRYL CYCLIC AMP (pharmacodynamics); INSULIN (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); PROSTAGLANDINS E (pharmacodynamics); PUTRESCINE (metabolism); SPERMINE (pharmacodynamics); TEMPERATURE; TRYPSIN (pharmacodynamics).

# Pohl A

**[COMPARISON OF EXOCRINE AND ENDOCRINE PANCREATIC FUNCTIONS]** Pohl A, Kade R, Heilmann W, Verlohren HJ *Z Gesamte Inn Med* 32: 48 contd, 1 Feb 77 (Ger) DL/77AUG570

BILIRUBIN (blood); COMPARATIVE STUDY; DIABETES MELLITUS (physiopathology); GLUCAGON (pharmacodynamics); HUMAN; INSULIN (secretion); PANCREAS (drug effects); PANCREATIC DISEASES (blood, physiopathology); PANCREATITIS (physiopathology); STIMULATION, CHEMICAL; TOLBUTAMIDE (pharmacodynamics).

# Polakis SE

**INDUCTION OF LIPOGENESIS DURING DIFFERENTIATION IN A PREADIPOCYTE CELL LINE.** Mackall JC, Student AK, Polakis SE, Lane MD *J Biol Chem* 251: 6462-4, 25 Oct 76 (Eng) \*DL/77AUG53



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### Polatti F

[RADIOIMMUNOLOGICAL EVALUATION OF MATERNAL PLASMA LEVELS OF 17-BETA-ESTRADIOL AND ESTRADIOL IN NORMAL AND PATHOLOGICAL PREGNANCIES] Bolis PF, Polatti F, Di Mario M *Arch Ostet Ginecol* 79: 280-90, Mar-Jul 74 (Ita) DL/77AUG648

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AN ALTERED RESPONSE TO CYCLIC AMP STIMULATING HORMONES IN INTACT HUMAN LEUKEMIC LYMPHOCYTES. Polgar P, Vera JC, Rutenburg AM *Proc Soc Exp Biol Med* 154: 493-5, Apr 77 (Eng) DL/77AUG493  
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); ADENYL CYCLASE (blood); CELLS, CULTURED; ENZYME ACTIVATION; EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); HORMONES (pharmacodynamics); HUMAN; ISOPROTERENOL (pharmacodynamics); LEUKEMIA, LYMPHOCYTIC (blood, enzymology); LYMPHOCYTES (metabolism); PROSTAGLANDINS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ]

### Poljak RI

[EFFECT OF ANTRECTOMY ON GASTRIC SECRETION INDUCED BY INSULIN HYPOGLYCEMIA IN DOGS] Fisher AA, Zubenko IuM, Poljak RI *Bull Eksp Biol Med* 83: 268-71, Mar 77 (Rus) DL/77AUG199

### Polikarpova LI

[ACTIVITY AND ISOENZYMES OF TYROSINE-ALPHA-KETOGLUTARATE TRANSAMINASE IN THE LIVER CYTOSTRUCTURES OF RATS WITH ALLOXAN DIABETES. EFFECT OF INSULIN] Polikarpova LI *Vopr Med Khim* 51-4, Jan-Feb 77 (Rus) DL/77AUG549

ALLOXAN DIABETES (enzymology, therapy); ANIMAL; ENGLISH ABSTRACT; INSULIN (therapeutic use); ISOENZYMES (metabolism); LIVER (enzymology); MALE; MITOCHONDRIA, LIVER (enzymology); RATS; SUBCELLULAR FRACTIONS (enzymology); TYROSINE AMINOTRANSFERASE (metabolism).

[ANDROGEN PARTICIPATION IN REALIZING THE ACTION OF HYDROCORTISONE AND INSULIN ON TYROSINE-ALPHA-KETOGLUTARATE TRANSAMINASE SYNTHESIS IN RAT LIVER MITOCHONDRIA] Polikarpova LI *Vopr Med Khim* 22: 238-40, Mar-Apr 76 (Rus) DL/77AUG556

AGE FACTORS; ANDROGENS (physiology); ANIMAL; CASTRATION; COMPARATIVE STUDY; ENGLISH ABSTRACT; ENZYME ACTIVATION (drug effects); HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); MALE; MITOCHONDRIA, LIVER (drug effects, enzymology); RATS; TESTOSTERONE (pharmacodynamics); TYROSINE AMINOTRANSFERASE (biosynthesis).

### Poljak A

[CARBOHYDRATE METABOLISM OF INFANTS WITH PRENATAL DYSTROPHY AND INFANTS OF DIABETIC MOTHERS. GLUCOSE TOLERANCE AND INSULIN SECRETION IN THE FIRST WEEK OF LIFE (AUTHORS TRANSL.)] Poljak A, Havelee L *Paediatr Paedol* 12: 127-36, 1977 (Ger) DL/77AUG478

BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); DIABETES MELLITUS, JUVENILE (metabolism); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INFANT, LOW BIRTH WEIGHT (injuries); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (metabolism); INSULIN (metabolism); PANCREAS (metabolism); PREGNANCY IN DIABETES; PREGNANCY.

### Pollard D

[METHODS OF EDUCATING THE DIABETIC.] Sulway M, Martin J, Pollard D, Webb K *Aust Fam Physician* 6: 160-1, Feb 77 (Eng) DL/77AUG652

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[PHOSPHOLIPASE A2 OF THE ADIPOCYTE CYTOPLASMIC MEMBRANE] Wolf C, Colard-Torquiebau O, Berezat G, Polonovski J *Biochimie* 59: 115-8, 1977 (Fre) DL/77AUG197

### Polonskaia LB

[CELL CULTURES OBTAINED USING COLLAGEN FROM THE PANCREASES OF CAT FETUSES] Babikova RA, Blumkin VN, Shalnev BI, Polonskaia LB *Bull Eksp Biol Med* 83: 350-3, Mar 77 (Rus) DL/77AUG200

### Pond WG

FOOD INTAKE CONTROLS IN THE SUCKLING PIG: GLUCOPRIVATION AND GASTROINTESTINAL FACTORS. Houtp KA, Houtp TR, Pond WG *Am J Physiol* 232: e510-4, May 77 (Eng) DL/77AUG608

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AMINO ACIDS (metabolism); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; FATTY ACIDS, ESSENTIAL (metabolism); FATTY ACIDS, NONESTERIFIED (metabolism); FEMALE; FETUS (metabolism); GESTATIONAL AGE; GLUCONEOGENESIS; GLUCOSE (metabolism); GLYCOLYSIS; HUMAN; KETONE BODIES (metabolism); LACTATES (metabolism); MATERNAL-FETAL EXCHANGE; OXYGEN CONSUMPTION; PLACENTA (metabolism); PREGNANCY; PROTEINS (biosynthesis).

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BLOOD SUGAR (metabolism); BODY WEIGHT; COMPARATIVE STUDY; HUMAN; INFANT; INSULIN (blood); KWASHIORKOR (blood);

PROTEIN-CALORIE MALNUTRITION (blood); SOMATOTROPIN (blood).

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BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); FEMALE; HOMEOSTASIS; HUMAN; INFANT MORTALITY; INSULIN (blood); PREGNANCY IN DIABETES (metabolism, mortality, occurrence, therapy); PREGNANCY TRIMESTER, FIRST; PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY, REVIEW; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADOLESCENCE; ADULT; CHILD; CHILD, PRESCHOOL; FEMALE; FRUCTOSE (diagnostic use); GLUCAGON (diagnostic use); GLUCOSEPHOSPHATASE DEFICIENCY (blood, metabolism); HUMAN; MALE; PHOSPHATES (blood); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ); URIC ACID (blood, metabolism, urine).

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DIABETES MELLITUS (therapy); HUMAN; YEAST, DRIED (administration & dosage).

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CHILE; FEMALE; GESTATIONAL AGE; HUMAN; HYPOGLYCEMIA (occurrence); INFANT, LOW BIRTH WEIGHT; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES; MALE.

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ANIMAL; CALCITONIN (secretion); CELLS, CULTURED; CHOLECYSTOKININ (pharmacodynamics); GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCAGON (pharmacodynamics); IN VITRO; PENTAGASTRIN (pharmacodynamics); PEPTIDE FRAGMENTS (pharmacodynamics); SECRETIN (pharmacodynamics); STIMULATION, CHEMICAL; TROUT; ULTIMOBRANCHIAL BODY (drug effects, secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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ADULT; ALANINE (diagnostic use, metabolism); BLOOD SUGAR (metabolism); CONTRACEPTIVES, ORAL (pharmacodynamics); CONTRACEPTIVES, ORAL, COMBINED (pharmacodynamics); CONTRACEPTIVES, ORAL, SYNTHETIC (pharmacodynamics); FEMALE; HUMAN; INSULIN (blood); LIPIDS (metabolism); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADULT; BIOLOGICAL TRANSPORT; FEMALE; GALACTOSE (metabolism); GENES, RECESSIVE; GLUCOSE (metabolism); GLYCOSURIA, RENAL (etiology); HEXOSES (metabolism); HUMAN; INTESTINES (metabolism); KIDNEY TUBULES (metabolism); MALABSORPTION SYNDROMES (complications, familial & genetic); MALE; MONOGRAPH (mortality); REVIEW.

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ANIMAL, DNA (biosynthesis); GLUCAGON (pharmacodynamics); LIVER (embryology, metabolism); RATS.



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**METABOLIC AND ENDOCRINE STUDIES IN A CASE OF LIPOATROPHIC DIABETES.** Rossini AA, Self J, Aoki TT, Goldman RF, Newmark SR, Meguid MM, Seldner JS, Cahill GF *Metabolism* 26: 637-50, Jun 77 (Eng) DL/77AUG445  
**ADULT; BASAL METABOLISM; BLOOD SUGAR (metabolism); BODY TEMPERATURE; CASE REPORT; DIABETES MELLITUS (complications, drug therapy, metabolism); FASTING; FEMALE; GLYCOSURIA (urine); HUMAN; HYPOTHYROIDISM (complications, drug therapy, metabolism); INSULIN (blood, pharmacodynamics, therapeutic use); LIPODYSTROPHY (complications, drug therapy, metabolism); PIMOZIDE (therapeutic use); PROTEINURIA (urine); SOMATOTROPIN (blood); THYROID HORMONES (therapeutic use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

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**ACETATES (metabolism); ADENOSINE TRIPHOSPHATE (pharmacodynamics); CHLOROPLASTS (drug effects, metabolism); COENZYME A (pharmacodynamics); FATTY ACIDS (biosynthesis); GLYCEROPHOSPHATES (pharmacodynamics); KINETICS; LIGHT; LIPIDS (biosynthesis); OLEIC ACIDS (biosynthesis); OXYGEN; PALMITIC ACIDS (biosynthesis); TRITONS (pharmacodynamics).**

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**ADOLESCENCE, ADULT; AGED; ALCOHOLISM (diagnosis); BIOPSY; CASE REPORT; FEMALE; FERRITIN (blood); GLUCOSE TOLERANCE TEST; HEMOCHROMATOSIS (diagnosis, familial & genetic, pathology); HUMAN; INSULIN (blood); IRON (blood); LIVER CIRRHOSIS (familial & genetic); LIVER CIRRHOSIS (diagnosis, pathology); LIVER FUNCTION TESTS; LIVER (pathology); MALE; MIDDLE AGE; PEDIGREE; TRANSFERRIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

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**[CENTRAL VAGAL STIMULATION CAUSED BY 2-DEOXY-D-GLUCOSE IN THE EXOCRINE PANCREAS. I. EFFECTS OF PHENOBARBITAL]** Vanille C, Roze C, De La Tour J, Souchard M, Debray C *Ann Pharm Fr* 34: 101-5, Mar-Apr 76 (Fre) \*DL/77AUG153

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**C-PEPTIDE (blood, metabolism, urine); DIABETES MELLITUS (metabolism); HUMAN; HYPOGLYCEMIA (metabolism); INSULIN ANTIBODIES (metabolism); ISLANDS OF LANGERHANS (metabolism); ISLET CELL TUMOR (diagnosis); PANCREAS (metabolism); PANCREATIC NEOPLASMS (diagnosis); PEPTIDES (metabolism); PROINSULIN (metabolism).**

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**EFFECT OF CHRONIC ETHANOL CONSUMPTION AND ACETALDEHYDE ON PARTIAL REACTIONS OF OXIDATIVE PHOSPHORYLATION AND CO<sub>2</sub> PRODUCTION FROM CITRIC ACID CYCLE INTERMEDIATES.** Cederbaum AI, Lieber CS, Rubin E *Arch Biochem Biophys* 176: 525-38, Oct 76 (Eng) \*DL/77AUG155

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**ANIMAL; BLOOD SUGAR (analysis); CATECHOLAMINES (blood); DOGS; GLUCAGON (blood); INSULIN (blood); SHOCK, HEMORRHAGIC (blood).**

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**ADULT; BONE AND BONES (blood supply, pathology); CALCITONIN (therapeutic use); CALCIUM (therapeutic use); COLLAGEN; DACTINOMYCIN (therapeutic use); FLUORIDES (therapeutic use); GLUCAGON (therapeutic use); HUMAN; HYDROXYPROLINE (urine); MITHRAMYCIN (therapeutic use); OSTEITIS DEFORMANS (drug therapy, etiology, physiopathology); PARATHYROID HORMONE (therapeutic use); PHOSPHATES (therapeutic use); REGIONAL BLOOD FLOW; SODIUM ETIDRONATE (therapeutic use).**

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**[EFFECT OF ATROPINE ON THE AUTOREGULATORY MECHANISM OF INHIBITION OF GASTRIC SECRETION IN PEPTIC ULCER]** Saakian AG, Shvarts Vla, Makarova LA *Ter Arkh* 49: 8-11, 1977 (Rus) DL/77AUG524  
**ADULT; ATROPINE (pharmacodynamics); DEPRESSION, CHEMICAL; DUODENAL ULCER (physiopathology); ENGLISH ABSTRACT; FEMALE; GASTRIC MUCOSA (drug effects, secretion); HISTAMINE (pharmacodynamics); HUMAN; INSULIN (pharmacodynamics); MALE; MIDDLE AGE; STIMULATION, CHEMICAL.**

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\*DL/77AUG55

BIOLOGICAL TRANSPORT, ACTIVE; CELL DIVISION; ENZYME INDUCTION; ENZYME REPRESSION; *ESCHERICHIA COLI* (metabolism); GENOTYPE; HISTIDINE (metabolism); KINETICS; MONOSACCHARIDES (metabolism); MUTATION; PHOSPHOTRANSFERASES (metabolism); *SALMONELLA TYPHIMURIUM* (metabolism); SPECIES SPECIFICITY; TRYPTOPHAN SYNTHETASE (biosynthesis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

SUGAR TRANSPORT, 2NDUCER EXCLUSION AND REGULATION OF THE MELIBIOSE, MALTOSE, GLYCEROL, AND LACTOSE TRANSPORT SYSTEMS BY THE PHOSPHOENOLPYRUVATE-SUGAR PHOSPHOTRANSFERASE SYSTEM. Sailer MH Jr, Roseman S *J Biol Chem* 251: 6606-15, 10 Nov 76 (Eng) \*DL/77AUG56

BIOLOGICAL TRANSPORT, ACTIVE; ENZYME INDUCTION (drug effects); ENZYME REPRESSION; *ESCHERICHIA COLI* (metabolism); GALACTOSIDES (metabolism); GENOTYPE; GLUCOSIDASES (biosynthesis); GLYCERIN (metabolism); GLYCOSIDES (metabolism); KINETICS; LACTOSE (metabolism); MALTOSE (metabolism); METHYLGLUCOSIDES (pharmacodynamics); MUTATION; PHOSPHOENOLPYRUVATE (metabolism); PHOSPHOTRANSFERASES (metabolism); *SALMONELLA TYPHIMURIUM* (drug effects, metabolism); SPECIES SPECIFICITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADULT; DIABETES MELLITUS (complications); FECES (analysis); HUMAN; LIPASE (administration & dosage); MALABSORPTION SYNDROMES (drug therapy); MIDDLE AGE; PANCREATECTOMY; PANCREATIN (administration & dosage); PANCREATITIS (complications).

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ACUTE DISEASE; ANIMAL; ANTI-INFLAMMATORY AGENTS (pharmacodynamics, therapeutic use); BENZOPHENONES (therapeutic use); BLOOD SUGAR (metabolism); CATS; CHRONIC DISEASE; COMPARATIVE STUDY; DOGS; DRUG SCREENING; EDEMA (drug therapy); FEMALE; GASTRIC MUCOSA (drug effects); MALE; MICE; PHENYLACETATES (therapeutic use); RATS; SPECIES SPECIFICITY; TOLBUTAMIDE (pharmacodynamics).

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ALLOXAN DIABETES (complications); ANIMAL; ATROPHY; LIVER CIRRHOSIS (complications); PERIODONTITIS (etiology).

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CHOLECYSTOKININ (pharmacodynamics); GASTRIC INHIBITORY POLYPEPTIDE (physiology); GASTROINTESTINAL HORMONES (physiology); GLUCAGON (physiology); HUMAN; INSULIN (physiology, secretion); SECRETIN (physiology); SOMATOTROPIN RELEASE INHIBITING HORMONE (physiology); SUBSTANCE P (physiology); VASOACTIVE INTESTINAL PEPTIDE (physiology).

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SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS IN RESPONSE TO D-GLUCOSE, L-LEUCINE, ALPHA-KETOISOCAPROIC ACID OR D-GLYCERALDEHYDE: EVIDENCE FOR A REGULATORY ROLE OF ADENOSINE-3,5-CYCLIC MONOPHOSPHATE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *Biochem Biophys Res Commun* 75: 630-5, 11 Apr 77 (Eng) DL/77AUG657

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## Schmidt R

[INVESTIGATIONS ABOUT ASCERTAINMENT OF EXACT MORPHOLOGICAL INDICES FOR THE FUNCTIONALLY ACTIVITY OF ISLETS CELLS BY MEANS OF ELECTRON OPTICAL CHARACTERIZING AND SUCCEEDED AUTOMATICALLY IMAGE ANALYSIS OF METAL-CONTAINING SECRETING GRANULES (AUTHORS TRANSL.)] Schmidt R, Meinel P, Schultka R *Acta Histochem (Jena)* 58: 100-4, 1977 (Ger) DL/77AUG579

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ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); BLOOD SUGAR (metabolism); FOLIC ACID (adverse effects); GLYCOLYSIS (drug effects); KIDNEY FAILURE, ACUTE (chemically induced, enzymology, metabolism); KIDNEY (metabolism); MALE; NEPHRONS (enzymology, metabolism); OXIDATIVE PHOSPHORYLATION (drug effects); PHOSPHOFRUCTOKINASE (metabolism); POTASSIUM (metabolism); PYRUVATE KINASE (metabolism); RATS; SODIUM (metabolism).

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ACROMEGALY (complications, drug therapy, metabolism); ADULT; AGED; DIABETES MELLITUS (drug therapy, etiology); ERGOTOXINE (therapeutic use); FEMALE; HUMAN; MALE; MIDDLE AGE; PIMOZIDE (pharmacodynamics); SOMATOTROPIN (blood); THYROTROPIN RELEASING HORMONE (diagnostic use); 2-BROMOERGOCRYPTINE (antagonists & inhibitors, therapeutic use).

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ADOLESCENCE; CHILD; CHILD, PRESCHOOL; CORTICOTROPIN (biosynthesis); CYCLOPHOSPHAMIDE (adverse effects); FEMALE; FSH (blood); HUMAN; HYDROCORTISONE (metabolism); INSULIN (physiology); LEUKEMIA, LYMPHOBLASTIC (therapy); LH (blood); LH-FSH RELEASING HORMONE (physiology); MALE; OVARY (drug effects); PITUITARY GLAND (physiology); SOMATOTROPIN (metabolism); THYROTROPIN (metabolism, secretion).

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[CELL CULTURES OBTAINED USING COLLAGEN FROM THE PANCREASES OF CATTLE FETUSES] Babikova RA, Blumkin VN, Shalnev BI, Polonskaia LB *Biull Eksp Biol Med* 83: 350-3, Mar 77 (Rus) DL/77AUG200

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RELATION OF CENTRAL NERVOUS SYSTEM GLUCOSE METABOLISM TO NEURONAL STRUCTURE. SCIATIC NERVE STIMULATION. Sharp FR, Sokoloff L *Neurosci Res Program Bull* 14: 476-8, Sep 76 (Eng) \*DL/77AUG107

ANIMAL; DEOXYGLUCOSE (metabolism); ELECTRIC STIMULATION; GLUCOSE (metabolism); RATS; SCIATIC NERVE (physiology); SPINAL CORD (metabolism).

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ACCELERATION (adverse effects); ANIMAL; ATROPHY; DOGS; ENGLISH ABSTRACT; ISLANDS OF LANGERHANS (pathology); MALE; PANCREAS (pathology); PANCREATIC DISEASES (etiology); SCLEROSIS.

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ANIMAL; DEOXYGLUCOSE (metabolism); EVOKED POTENTIALS; GLUCOSE (metabolism); OLFACTORY BULB (cytology, metabolism); OLFACTORY NERVE (metabolism); RABBITS; RATS.

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ANIMAL; ARTIFICIAL ORGANS; BIOMEDICAL ENGINEERING; BLOOD SUGAR (analysis); DIABETES MELLITUS (therapy); DOGS; FEEDBACK; HUMAN; INSULIN (administration & dosage); ISLANDS OF LANGERHANS; MODELS, THEORETICAL.

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INSULIN ANTIBODIES; IODINE RADIOISOTOPES (diagnostic use); KINETICS; RADIOIMMUNOASSAY (methods); TEMPERATURE; THERMODYNAMICS; TIME FACTORS.

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GLUCOSE TOLERANCE TEST; HUMAN; LIPIDS (blood); MALE; MIDDLE AGE.

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ALKALINE PHOSPHATASE (blood); ASPARTATE AMINOTRANSFERASE (blood); BILIRUBIN (blood); BLOOD PROTEINS (analysis); BLOOD SUGAR (analysis); BLOOD UREA NITROGEN; CALCIUM (blood); HUMAN; SODIUM (blood); STATISTICS (methods).

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ROLE OF CATECHOLAMINES IN ANGIOTENSIN INDUCED HYPERGLYCAEMIA. Singh KN, Agrawal S, Chandra V, Mittal RK. *Indian J*

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ADRENAL GLANDS (physiology); ADRENALECTOMY; ANGIOTENSIN II (pharmacodynamics); ANIMAL; BLOOD PRESSURE (drug effects); BLOOD SUGAR (analysis); CATECHOLAMINES (physiology); DOGS; FEMALE; INJECTIONS, INTRAVENITRULAR; MALE; RESERPINE (pharmacodynamics); SPINAL CORD (physiology); STIMULATION, CHEMICAL; SYMPATHETIC NERVOUS SYSTEM (physiology); VAGOTOMY; VAGUS NERVE (physiology).

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ADULT; AGE FACTORS; BLOOD SUGAR (metabolism); BODY WEIGHT; CHOLESTEROL (blood); DRUG EVALUATION; DRUG RESISTANCE; FEMALE; HUMAN; HYPERLIPIDEMIA (drug therapy); LIPOPROTEINS, VLDL (blood); MALE; METFORMIN (adverse effects, therapeutic use); MIDDLE AGE; TRIGLYCERIDES (blood).

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CLOSTRIDIOPEPTIDASE A (metabolism); FIBRIN FIBRINOGEN DEGRADATION PRODUCTS (metabolism); FIBRIN (metabolism); FIBRINOLYSIN (metabolism); HUMAN; IMMUNOELECTROPHORESIS, TWO-DIMENSIONAL; LIPID MOBILIZATION; LIPOPROTEINS, LDL (metabolism); MIDDLE AGE.

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ADENOSINE DIPHOSPHATE (metabolism, pharmacodynamics); ARACHIDONIC ACIDS (pharmacodynamics); BLOOD PLATELETS (cytology, metabolism, ultrastructure); FIBRINOGEN (pharmacodynamics); HUMAN; INDOMETHACIN (pharmacodynamics); ORGANOIDS (metabolism); PEROXIDES; PLATELET AGGREGATION (drug effects); PROSTAGLANDINS E (pharmacodynamics); PROSTAGLANDINS (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ANIMAL; BLOOD SUGAR (metabolism); BRAIN (metabolism); DEOXY SUGARS (metabolism); DEOXYGLUCOSE (blood, metabolism); METHODS; MODELS, NEUROLOGICAL.

RELATION OF CENTRAL NERVOUS SYSTEM GLUCOSE METABOLISM TO NEURONAL STRUCTURE. SCIATIC NERVE STIMULATION. Sharp FR, Sokoloff L *Neurosci Res Program Bull* 14: 476-8, Sep 76 (Eng) \*DL/77AUG107

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ACIDOSIS, DIABETIC (blood, chemically induced, complications); ALCOHOLIC INTOXICATION (complications); BLINDNESS (chemically induced); CASE REPORT; DIABETIC RETINOPATHY (chemically induced); FEMALE; HUMAN; LACTATES (blood); MIDDLE AGE; PHENFORMIN (adverse effects).

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BLOOD SUGAR (analysis); FATTY ACIDS, NONESTERIFIED (blood); HUMAN; INFANT NUTRITION; INFANT, NEWBORN; INFANT, PREMATURE; LACTATES (blood); PYRUVATES (blood).

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ANIMAL; CATTLE; GALACTOSE (metabolism); GLUCOSAMINE (metabolism); GLUCOSE (metabolism); GLYCOPROTEINS (biosynthesis); IN VITRO; KINETICS; LIPIDS (isolation & purification, metabolism); MANNOSE (metabolism); OLIGOSACCHARIDES (isolation & purification, metabolism); PUROMYCIN (pharmacodynamics); THYROID GLAND (drug effects, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )

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LIPID-SACCHARIDE INTERMEDIATES IN GLYCOPROTEIN BIOSYNTHESIS. I. FORMATION OF AN OLIGOSACCHARIDE-LIPID BY THYROID SLICES AND EVALUATION OF ITS ROLE IN PROTEIN GLYCOSYLATION. Spiro MJ, Spiro RG, Bhoyroo VD *J Biol Chem* 251: 6400-8, 25 Oct 76 (Eng) \*DL/77AUG52

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ANIMAL; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; FASTING; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSEPHOSPHATASE (metabolism); INSULIN (metabolism); LIPIDS (metabolism); LIVER GLYCOGEN (metabolism); LIVER

(metabolism); SHEEP (metabolism); SOMATOTROPIN (pharmacodynamics); TIME FACTORS.

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ANTIGENIC DETERMINANTS; ARTHRITIS, RHEUMATOID (immunology); DIABETES MELLITUS, JUVENILE (immunology); HISTOCOMPATIBILITY ANTIGENS (analysis); HL-A (analysis); HOMOZYGOTE; HUMAN; KIDNEY (transplantation); LEUKOCYTE CULTURE TEST, MIXED; MULTIPLE SCLEROSIS (immunology); SKIN (transplantation); T-LYMPHOCYTES (immunology); TRANSPLANTATION IMMUNOLOGY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )

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ADULT; CASE REPORT; FEMALE; HUMAN; INSULIN (administration & dosage); LABOR, PREMATURE (complications, drug therapy); PREGNANCY IN DIABETES (complications); PREGNANCY; PROPANOLAMINES (therapeutic use); RITODRINE (therapeutic use).

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[IUNIS INCARNATUS SYNDROME] Steigleder GK, Stober-Munster I *Z Hautkr* 52: 285-6, 15 Mar 77 (Ger) DL/77AUG571

ADOLESCENCE; CASE REPORT; DIABETES MELLITUS; HUMAN; HYPERHIDROSIS; MALE; NAILS, INGROWN; SYNDROME.

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[PSYCHOLOGY OF CHRONIC DISEASES IN CHILDREN AND JUVENILES. STUDIES ON HEMOPHILIACS HANDICAPPED AND

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ADOLESCENCE; CHILD; DIABETES MELLITUS, JUVENILE; FEMALE; HANDICAPPED; HEMOPHILIA; HUMAN; INTELLIGENCE; MALE; PARENT-CHILD RELATIONS; PERSONALITY ASSESSMENT; PERSONALITY INVENTORY; PSYCHOLOGICAL TESTS; PSYCHOLOGY.

ANESTHESIA; ANIMAL; ANOXIA (blood); BLOOD SUGAR (metabolism); DOGS; FATTY ACIDS, NONESTERIFIED (blood); HYDROCORTISONE (blood); HYPERCAPNIA (blood); LACTATES (blood); OXYGEN (blood); PYRUVATES (blood); RESPIRATION, ARTIFICIAL.

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THE ROLE OF THE POSTERIOR HYPOTHALAMUS IN HYPOGLYCAEMIA AND GASTRIC SECRETION [PROCEEDINGS]. Morrissey SM, Stephens DN, Webber DE *J Physiol (Lond)* 266: 85P-86P, Mar 77 (Eng) DL/77AUG388

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ADULT; CHEMISTRY; DIABETES MELLITUS (blood); DIHYDROXYACETONE PHOSPHATE; ERYTHROCYTES (metabolism); FRUCTOSEPHOSPHATES; GLUCOSEPHOSPHATES; GLYCERALDEHYDE; GLYCOLYSIS; HEMOGLOBIN A; HEMOGLOBINS; HUMAN; SUGAR PHOSPHATES.

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CUSHINGS SYNDROME (complications, diagnosis); DIABETES MELLITUS (complications); ENDOCRINE DISEASES (complications); HUMAN; HYPOGONADISM (complications); HYPOPIUITARISM (complications); HYPOTHALAMUS (physiopathology); HYPOTHYROIDISM (complications); OBESITY (complications, etiology, physiopathology, therapy); PANCREATIC NEOPLASMS (diagnosis); PITUITARY FUNCTION TESTS; STEIN-LEVENTHAL SYNDROME (complications, diagnosis).



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THE RELATIONSHIP OF ABNORMAL CIRCULATING INSULIN LEVELS TO ATHEROSCLEROSIS. Stout RW *Atherosclerosis* 27: 1-13, May 77 (Eng) DL/77AUG668  
ALLOXAN DIABETES (blood); ANIMAL; AORTA (metabolism); ARTERIOSCLEROSIS (blood); ATHEROSCLEROSIS (blood); CONTRACEPTIVES, ORAL (adverse effects); DIABETES MELLITUS (blood); DIET; ATHEROGENIC; FEMALE; HUMAN; HYPERCHOLESTEREMIA (blood); HYPERLIPIDEMIA (blood); INSULIN (blood); LIPID MOBILIZATION; LIPIDS (biosynthesis); MALE; MUSCLE, SMOOTH (metabolism); OBESITY (blood); RISK; TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UREMIA (blood).

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AGING; ANIMAL; BEHAVIOR MODIFICATION; BLOOD PRESSURE; CALORIC INTAKE; CARCINOGENESIS; CORONARY DISEASE (etiology); DIETARY FATS (metabolism); DIETARY PROTEINS (metabolism); EATING; GROWTH DISORDERS (etiology); HOMES FOR THE AGED; HUMAN; LONGEVITY; MALE; MONOGRAPH (mortality); NUTRITION; OBESITY (complications, therapy); REVIEW; RISK; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.].

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DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); FEMALE; HISTOCOMPATIBILITY ANTIGENS (analysis); HL-A (analysis); HOMOZYGOTE; HUMAN; IMMUNOGENETICS; MALE; PEDIGREE; RECOMBINATION, GENETIC.

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ADULT; BLOOD SUGAR; CARBON DISULFIDE (poisoning); COMPARATIVE STUDY; FOLLOW-UP STUDIES; HUMAN; MALE; MIDDLE AGE, OCCUPATIONAL DISEASES (chemically induced); RETINAL DISEASES (chemically induced); TIME FACTORS.

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FURTHER STUDIES ON THE MODE OF ACTION OF ISOPRENALINE ON GASTRIC SECRETION IN THE CONSCIOUS RAT. Lundell L, Svensson SE, Nilsson G *Br J Pharmacol* 58: 17-25, Sep 76 (Eng) \*DL/77AUG7

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ANIMAL; BLOOD FLOW VELOCITY (veterinary); BLOOD SUGAR (analysis); CATTLE (metabolism, physiology); FEMALE; GLUCOSE (biosynthesis); LACTATION; LIVER CIRCULATION (drug effects); LIVER (drug effects, metabolism); PREGNANCY; THIAZINES (pharmacodynamics); XYLAZINE (pharmacodynamics).

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BLOOD COAGULATION DISORDERS (diagnosis); DIABETES MELLITUS (diagnosis); GLOMERULONEPHRITIS (diagnosis); HUMAN; HYPERTENSION (diagnosis); PHYSICAL EXAMINATION; PREOPERATIVE CARE; SURGERY, ORAL.

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INTERSTITIAL GAMMA IRRADIATION BY 198AU OF THE PITUITARY IN DIABETIC HORMONE BLOCKADE AND OCULAR RESULTS. Schaub C, Szikla G, Drouin P, Bleut Pajot MT, Mejean L, Debry G, Talairach J *J Neurosurg* 46: 703-16, Jun 77 (Eng) DL/77AUG372

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ADULT; ASTROCYTOMA (radiotherapy); BRAIN DISEASES (radiotherapy); BRAIN NEOPLASMS (radiography, radiotherapy); CEREBRAL ANGIOGRAPHY; CHILD; CYSTS (radiotherapy); DIABETIC RETINOPATHY (blood, surgery); FEMALE; GLIOMA (radiotherapy); HUMAN; HYPOPHYSECTOMY (methods); INSULIN (diagnostic use); MALE; NEUROSURGERY (methods); PREGNANCY; RADIOISOTOPES (therapeutic use); SOMATOTROPIN (blood); STEREOTAXIC TECHNIQUES; THALAMUS.

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**ALLOXAN DIABETES** (metabolism); **ANIMAL;** **BLOOD SUGAR** (analysis); **CARBON MONOXIDE** (blood, metabolism); **COMPARATIVE STUDY;** **MALE;** **RATS;** **RESPIRATION.**

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**AN APPRAISAL OF RADICAL PANCREATODUODENECTOMY BASED ON INSULIN SECRETION.** Miyata M, Takao T, Okamoto E, Manabe H. *Am J Surg* 133: 577-81, May 77 (Eng) DL/77AUG612

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**PLASMA IMMUNOREACTIVE INSULIN RESPONSE TO 100G-GLUCOSE-GLUCAGON-TOLBUTAMIDE STIMULATION IN JUVENILE-ONSET DIABETICS.** Takeda R, Usukura N, Miwa U, Nakabayashi H, Kishitani M. *Ala J Med Sci* 14: 125-31, Apr 77 (Eng) DL/77AUG615

**ADULT;** **COMPARATIVE STUDY;** **DIABETES MELLITUS, JUVENILE** (blood, diagnosis, immunology); **FEMALE;** **GLUCAGON** (diagnostic use); **GLUCOSE TOLERANCE TEST;** **HUMAN;** **INSULIN ANTIBODIES;** **INSULIN** (blood); **MALE;** **TOLBUTAMIDE** (diagnostic use).

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**IMMUNOREACTIVE INSULIN AND GLUCOSE RESPONSE TO ORAL GLUCOSE IN OFFSPRING OF PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDAEMIA.** Werbin B, Tamir I, Heldenberg D, Ayalon D, Adler M, Lev-tov O. *Clin Chim Acta* 76: 35-40, 1 Apr 77 (Eng) DL/77AUG232

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**ADULT;** **BLOOD SUGAR** (physiology); **CHOLESTEROL** (blood); **GLUCOSE TOLERANCE TEST;** **GLUCOSE** (administration & dosage, pharmacodynamics); **HUMAN;** **INFUSIONS, PARENTERAL;** **INSULIN** (blood, secretion); **MALE;** **PREDIABETIC STATE** (familial & genetic); **SOMATOTROPIN** (metabolism); **TRIGLYCERIDES** (blood); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )**

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**[EFFECT OF GLUCOSE AND GLYCINE ON GASTRIC EMPTYING (AUTHORS TRANSL.)]** Miwa T, Tani N, Harasawa S, Suzuki S, Miwa M. *J Jpn Soc Intern Med* 65: 681-4, 10 Jul 76 (Jpn) \*DL/77AUG82

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**LIPOGENESIS AND THE SYNTHESIS AND SECRETION OF VERY LOW DENSITY LIPOPROTEIN BY AVIAN LIVER CELLS IN NONPROLIFERATING MONOLAYER CULTURE. HORMONAL EFFECTS.** Tarlow DM, Watkins PA, Reed RE, Miller RS, Zwergel EE, Lane MD. *J Cell Biol* 73: 332-53, May 77 (Eng) DL/77AUG345

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE** (pharmacodynamics); **CELLS, CULTURED;** **CHOLESTEROL** (biosynthesis); **DIBUTYRYL CYCLIC AMP** (pharmacodynamics); **ENDOPLASMIC RETICULUM** (ultrastructure);

**ESTRADIOL** (pharmacodynamics); **FATTY ACIDS** (biosynthesis); **GLUCAGON** (pharmacodynamics); **GOLGI APPARATUS** (ultrastructure); **INSULIN** (pharmacodynamics); **LIPIDS** (biosynthesis); **LIPOPROTEINS, VLDL** (biosynthesis, metabolism); **LIVER** (cytology, metabolism); **PROTEINS** (biosynthesis); **TRIODOXYTHYRONINE** (pharmacodynamics); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )**

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**CONGENITAL HYPOPIUITARISM ASSOCIATED WITH NEONATAL HYPOGLYCEMIA AND MICROPHALLUS: EFFECT OF GH THERAPY.** Cacciani E, Cicognani A, Pirazzoli P, Tassoni P, Bernardi F, Salar-di S, Zappulla F, Mazzanti L. *Helv Paediatr Acta* 31: 481-5, Apr 77 (Eng) DL/77AUG332

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**Tellez-Yudilevich M**

**SECRETORY CAPACITY AND ULTRASTRUCTURE OF RAT PANCREATIC ISLETS AFTER PRESERVATION OF PANCREAS IN DIFFERENT CONDITIONS.** Tellez-Yudilevich M, Tyhurst M, Howell SL, Sheldon J. *Transplantation* 23: 217-21, Mar 77 (Eng) DL/77AUG531

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## Tepperman HM

MICROSCOPY, ELECTRON; ORGAN PRESERVATION (methods); OXYGEN (pharmacodynamics); PANCREAS; RATS; TISSUE PRESERVATION (methods).

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EFFECT OF ADAPTATION TO MEAL-FEEDING ON INSULIN, GLUCAGON AND THE CYCLIC NUCLEOTIDE-PROTEIN KINASE SYSTEM IN RATS. Ip MM, Ip C, Tepperman HM, Tepperman J J *Nutr* 107: 746-57, May 77 (Eng) DL/77AUG374

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ADOLESCENCE, ADULT; AUDIOMETRY; DIABETES MELLITUS (physiopathology); DIABETIC ANGIOPATHIES (physiopathology); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERLIPIDEMIA (physiopathology); LABYRINTH DISEASES (physiopathology); LABYRINTH (blood supply); LABYRINTHINE FLUIDS; MALE; MENIERES DISEASE (physiopathology); MIDDLE AGE; VERTIGO (physiopathology).

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[EFFECT OF EARLY FEEDING WITH GLUCOSE SOLUTION ON THE INCIDENCE OF HYPOGLYCEMIA IN DYSMATURE AND HYPOTROPHIC NEWBORN INFANTS] Thieme R, Tiller R *Zentralbl Gynaekol* 99: 197-200, 1977 (Ger) DL/77AUG573  
BLOOD SUGAR (analysis); ENGLISH ABSTRACT; FEMALE; GERMANY, EAST; GLUCOSE (therapeutic use); HUMAN; HYPOGLYCEMIA (blood, diet therapy, occurrence); INFANT NUTRITION; INFANT, LOW BIRTH WEIGHT (injuries); INFANT, NEWBORN; INFANT, PREMATURE, DISEASES (blood, diet therapy, occurrence); PREGNANCY; SOLUTIONS.

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MECHANISM OF PROTECTION FROM ALLOXAN DIABETES PROVIDED BY N-BUTANOL. Schaubberger CW, Thies RL, Fischer LJ *J Pharmacol Exp Ther* 201: 450-5, May 77 (Eng) DL/77AUG385

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INDEPENDENCE OF DEOXYRIBONUCLEIC ACID REPLICATION AND INITIATION FROM MEMBRANE FLUIDITY AND THE SUPPLY OF UNSATURATED FATTY ACIDS

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IN ESCHERICHIA COLI. Thilo L, Vielmetter W *J Bacteriol* 128: 130-43, Oct 76 (Eng) \*DL/77AUG45

CELL MEMBRANE (physiology); DNA, BACTERIAL (biosynthesis); ESCHERICHIA COLI (metabolism, ultrastructure); FATTY ACIDS, UNSATURATED (metabolism); KINETICS; OLEIC ACIDS (metabolism); RNA, BACTERIAL (biosynthesis); TEMPERATURE.

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CASE REPORT; CHILD; FEMALE; HUMAN; HYPERINSULINISM (complications, etiology, pathology); HYPOGLYCEMIA (diagnosis, etiology, surgery); INFANT; INFANT, NEWBORN; ISLANDS OF LANGERHANS (pathology, ultrastructure); MALE; PANCREATECTOMY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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KETOGENESIS IN ISOLATED RAT HEPATOCYTES. EFFECT OF OLEATE AND CHLOROPROPAMIDE ON KETOGENESIS FROM ENDOGENOUS LIPIDS. Debeer LJ, Mannaerts G, Thomas J, De Schepper PJ *Biochem Pharmacol* 26: 789-91, 15 Apr 77 (Eng) DL/77AUG664

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PROBLEMS IN THE DIAGNOSIS OF CUSHINGS SYNDROME. Thomson JE, Thomson JA, Beastall GH *Scott Med J* 22: 133-8, Apr 77 (Eng) DL/77AUG518

ADENOMA (diagnosis); ADRENAL GLAND HYPERFUNCTION (diagnosis); ADRENAL GLAND NEOPLASMS (diagnosis); ADRENALECTOMY; ADULT; CASE REPORT; CORTICOTROPIN (blood); CUSHINGS SYNDROME (diagnosis); DIAGNOSIS, DIFFERENTIAL; DIURNAL RHYTHM; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYDROCORTISONE (blood, urine); MALE.

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[EFFECT OF AGE AND DURATION OF MEAL-EATING ON BODY COMPOSITION AND ON LIPOGENESIS AND CELLULARITY OF ADIPOSE TISSUE IN MALE RATS] Ticca M, Tomassi G *Riv Sci Tech Nutr Um* 5: 23-6, Jan-Feb 75 (Ita) \*DL/77AUG119  
ADIPOSE TISSUE (cytology); AGE FACTORS; ANIMAL NUTRITION; ANIMAL; BODY

COMPOSITION; CARBOHYDRATES (metabolism); CELL COUNT; ENGLISH ABSTRACT; FATS (metabolism); GLUCOSE (metabolism); LIPIDS (biosynthesis); RATS.

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BINDING SITES; GLUCOSE; HEXOKINASE (metabolism); ISOENZYMES (metabolism); KINETICS; MACROMOLECULAR SYSTEMS; MOLECULAR WEIGHT; PROTEIN BINDING; SACCHAROMYCES CEREVISIAE (enzymology).

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AGE FACTORS; ANIMAL; ENGLISH ABSTRACT; GLUCOSE (metabolism); INTESTINAL ABSORPTION; RATS.

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ADULT; AGED; ANIMAL; ANTIBODIES, VIRAL (analysis); CASE REPORT; COXSACKIE VIRUS INFECTIONS (complications); COXSACKIE VIRUSES (immunology); DIABETES MELLITUS (etiology, immunology); FEMALE; HUMAN; MALE; MICE; MIDDLE AGE.

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HUMAN; KINETICS; MALE; METABOLIC CLEARANCE RATE; MIDDLE AGE; OXYGEN CONSUMPTION.

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RESOLUTION AND PARTIAL CHARACTERIZATION OF TWO ALDEHYDE REDUCTASES OF MAMMALIAN LIVER. Tulsiani DR, Touster J. *Biol Chem* 252: 2545-50, 25 Apr 77 (Eng) DL/77AUG339

ALCOHOL OXIDOREDUCTASES (isolation & purification, metabolism); ALDEHYDES; AMINO ACIDS (analysis); ANIMAL; DIABETES MELLITUS (enzymology); GEL DIFFUSION TESTS; HYDROGEN-ION CONCENTRATION (physiology); KINETICS; LIVER (enzymology); MALE; MICE; MICE, INBRED STRAINS; MOLECULAR WEIGHT; STRUCTURE-ACTIVITY RELATIONSHIP; SUBCELLULAR FRACTIONS (enzymology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL; BURNS (blood, metabolism); GLUCOSE TOLERANCE TEST; GLUCOSE (administration & dosage, metabolism); HYPERGLYCEMIA; INSULIN RESISTANCE; INSULIN (biosynthesis, secretion); INSULIN (blood); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ACIDOSIS, DIABETIC (drug therapy); CASE REPORT; CHILD; FEMALE; HUMAN; INFUSIONS, PARENTERAL (methods); INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy).

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ENGLISH ABSTRACT; GASTRIN (blood); HUMAN; INSULIN (diagnostic use); PEPTIC ULCER (metabolism, surgery); VAGOTOMY.

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LIPOGENESIS AND THE SYNTHESIS AND SECRETION OF VERY LOW DENSITY LIPOPROTEIN BY AVIAN LIVER CELLS IN NONPROLIFERATING MONOLAYER CULTURE. HORMONAL EFFECTS. Tarlow DM, Watkins PA, Reed RE, Miller RS, Zwergel EE, Lane MD *J Cell Biol* 73: 332-53, May 77 (Eng) DL/77AUG345

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ADULT; ANTIGENS, BLOOD SUGAR (metabolism); CASE REPORT; FEMALE; GLUCAGON (blood); GLUCOSE TOLERANCE TEST; HUMAN; HYPERCHOLESTEREMIA (immunology, metabolism, surgery); INSULIN (blood, immunology); PORTACAVAL ANASTOMOSIS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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AGE FACTORS; AUTOIMMUNE DISEASES; DENTISTS; DIABETES MELLITUS (chemically induced, complications, drug therapy, etiology, familial & genetic, immunology); FEMALE; HUMAN; INSULIN (therapeutic use); MALE.

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ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL; ANTIMYCIN A (pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE; CARBOXYLIC ACIDS (metabolism); GLUCAGON (pharmacodynamics); KINETICS; MALE; MITOCHONDRIA, LIVER (drug effects, enzymology, metabolism); OLIGOMYCIN (pharmacodynamics); OXYGEN CONSUMPTION (drug effects); POTASSIUM (metabolism); RATS; ROTENONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL; BLOOD SUGAR (metabolism); FATTY ACIDS, NONESTERIFIED (blood); LIVER GLYCOGEN (metabolism); MALE; MICE, MICE, INBRED STRAINS; STOMACH DISEASES (etiopathology); STRESS (complications, metabolism).

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ANIMAL; CADMIUM (antagonists & inhibitors, metabolism, pharmacodynamics); DEPRESSION, CHEMICAL; IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, physiology, secretion); MALE; METALLOPROTEINS (physiology); METALLOTHIONEIN (biosynthesis, metabolism, physiology); MICE; PROTEIN BINDING; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL; BIOLOGICAL TRANSPORT (drug effects); DEPRESSION, CHEMICAL; ELECTRIC CONDUCTIVITY; GLUCOSE (metabolism); IN VITRO; MANNITOL (metabolism); MEMBRANE POTENTIALS; METHYLGLUCOSIDES (metabolism); METHYLGLYCOSIDES (metabolism); PHLORHIZIN (pharmacodynamics); PIGMENT EPITHELIUM OF EYE (metabolism); RANA CATESBEIANA; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UREA (metabolism).

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ANIMAL; BIOLOGICAL TRANSPORT; DNA (biosynthesis); FEMALE; HEART ENLARGEMENT (etiopathology, metabolism); HEART (physiology); INTRACELLULAR FLUID (metabolism); MODELS, BIOLOGICAL; MUSCLE PROTEINS (biosynthesis, metabolism); MYOCARDIUM (metabolism); MYOFIBRILS (metabolism); RATS; RNA (biosynthesis); TRANSCRIPTION, GENETIC; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANHYDRIDES; BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; ERYTHROCYTE MEMBRANE (metabolism); ERYTHROCYTES (metabolism); GLUCOSE (metabolism); HUMAN; LIPOSOMES; MALEATES; MEMBRANE PROTEINS (blood); PROTEIN BINDING; TRITONS.

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[OXYGEN METABOLIC KINETICS IN DIABETIC RETINOPATHY] Trutneva KV, Zaretskaia RB, Mikhailova NA *Vestn Oftalmol* 37-40, Mar-Apr 77 (Rus) DL/77AUG541

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ALCOHOL, ETHYL (pharmacodynamics); ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCAGON (pharmacodynamics); IN VITRO; KINETICS; LACTATES (pharmacodynamics); LIVER (drug effects, metabolism); MALE; RATS.

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ADULT; CHILD, PRESCHOOL; CYSTIC FIBROSIS (complications); DIABETES MELLITUS (complications); DYSGAMMAGLOBULINEMIA (complications, diagnosis); FEMALE; HUMAN; IGA; IMMUNOGLOBULINS, KAPPA CHAIN; IMMUNOGLOBULINS, LAMBDA CHAIN; IMMUNOGLOBULINS, LIGHT CHAIN; IMMUNOLOGIC DEFICIENCY SYNDROMES (diagnosis); INTRINSIC FACTOR (deficiency); MALABSORPTION SYNDROMES (complications); MALE.

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EFFECTS OF DIMETHYLSULFOXIDE ON CYCLIC AMP ACCUMULATION, LIPOLYSIS AND GLUCOSE METABOLISM OF FAT CELLS. Wieser PB, Zeiger MA, Fuin JN *Biochem Pharmacol* 26: 775-78, 15 Apr 77 (Eng) DL/77AUG663

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ADULT; ANIMAL; DUODENUM; GASTROINTESTINAL HORMONES (secretion); GLIBENCLAMIDE (pharmacodynamics); HUMAN; INSULIN (secretion); INTESTINAL MUCOSA (secretion); MALE; RATS.

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A-CELL BEHAVIOR IN ORGAN CULTURE OF ISOLATED RAT ISLETS: SECRETION AND TISSUE CONTENT OF GLUCAGON AND INSULIN. Ziegler B, Ziegler M, Hahn HJ, Fiedler H *Endocrinol Exp (Bratisl)* 11: 23-31, Mar 77 (Eng) DL/77AUG254  
ANIMAL; DIBUTYRYL CYCLIC AMP (pharmacodynamics); FEMALE; GLUCAGON (metabolism); GLUCOSE (pharmacodynamics); INSULIN (metabolism); ISLANDS OF LANGERHANS (drug effects, metabolism); ORGAN CULTURE; PANCREAS (drug effects, metabolism); RATS.

SUCCESSFUL CULTIVATION OF ISOLATED ISLETS OF LANGERHANS WITHOUT ATTACHMENT: RELATIONSHIP BETWEEN GLUCOSE- AND THEOPHYLLINE-INDUCED INSULIN RELEASE AND INSULIN CONTENT IN RATS ISLETS AFTER CULTIVATION. Ziegler B, Hahn HJ, Ziegler M, Fiedler H *Endocrinologie* 69: 103-11, Feb 77 (Eng) DL/77AUG260

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[LASER-THERAPY (AUTHORS TRANSL.)] Anonymous *Klin Monatsbl Augenheilkd* 170: 237-41, Feb 77 (Ger) DL/77AUG421  
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HUMAN; HYPERINSULINISM (metabolism); INSULIN RESISTANCE; INSULIN (blood); MONOCYTES (metabolism); OBESITY (metabolism); RECEPTORS, INSULIN (metabolism).



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